

A DESCRIPTION Of the Nature OF FOUR-FOOTED BEASTS,

With their Figures

Enr

WRITTEN IN LATIN

By

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Translated into English by J. P.

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THE P R E F A C E To the B O O K Of the FOUR-FOOTED BEASTS.

Courteous Reader,



E have thought good to anticipate something touching FOUR-FOOTED BEASTS in general: which I trust I shall have sufficiently performed, when I shall have premised to you some account of the *Name, the Parts, Place, Food, Growth, Generation, Life, Animal actions, Use and Differences* thereof.

Now under the denomination of These, are to be by us considered Those Animals which, being of a middle nature between the airy and the waterish, are for the most part covered with hair, sometimes with shells, and do go upon four feet. I should call them, after the Greek idiom, *Tetrapoda* four-footed, *Tetrakola* having four members or parts, *Tetraskela* four legg'd, and *Tetrabamona* such as walk on four. In all the rest there is a manifold and incomprehensible variety, which, if you should well consider, would strike you with astonishment.

Please first to view with me the *outward Parts*. They which bring forth living creatures have *hairs*; which produce eggs, a shell. The hairs of Horses are seen in their large manes, so the locks of Lyons on their shoulders: and in Conies within their cheeks and feet. The Hare is of all living creatures the most hairy. The hairs grow thicker in all with age. In the Horse only they contract a grayness. Swine and porcupines are covered with bristles, Sheep with wool, Goats have their beards hanging down from their chin. The *Hide* of the Sea-horse is so thick, that out of it are formed turned-spears: that also of the Elephant and Rhinoceros is almost impenetrable. Nowhere is Nature's wantonness, or lavishness, more evident than in the Horns. These it spreads abroad into branches, as in the Harts. To Others it gives single Ones, as in the Harts call'd Spitters which have young horns without tines. The horns of Others hath it fashioned as the palms of hands spread abroad, and hath shot out fingers from them, whence they call them *Platyce-rota's* Broad-horned beasts. To the Roes, or wild Goats, hath it given horns with branches, but little: neither hath it made them hanging down. Such as are circularly convolved or wound about, as a warlebat, are given to the Rams: unlucky ones to Bulls. To the wild Goats of the Rocks, such as are crookedly writen backwards, to the Fallow-Deer on the contrary, forwards. Such as stand bolt upright, and twined with the compassing about of wrinkles and sharpened lightly toward the top, to the Strepsiceros a Beast half wild and half tame, which in Africa they call an *Ad-dax*. Those are moveable, as are ears, which be found among the herds in Phrygia: Those of the Troglodyts (so called from their inhabiting in caverns) grow directly toward the earth, by reason whereof they must turn their necks awry when they feed. To Others only one horn is given, and that in the middle of the head, or on the nose. To Some also are given horns of strength to run in a forcible assault; to Others, for striking withball. Some are hooked, Others contrariwise crooking

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crooking upwards. In Some they are cast in various manners, lying along, turned about, entangled together: all of them tending toward a sharp point. To all them and them onely who procreate a living creature are given Ears, and they are movable. In Some they are less, in Others greater. In the Harts onely they are cloven, and as it were divided: in Ratts they are full of hairs. In Horses and all kind of labouring cattell they show the tokens of the mind: in the weary they are flagging: panting or trembling in the fearfull: standing upright in the raging: hanging loose in the sick. The Dog, the Lion, and those which live upon hunting for the prey have the Mouth so cut open as to gape wide; 't is of a middle size in the Swine. The snout or trunk is onely in the Elephant. The Jaws in labouring cattell are long, in Apes round. The Neck in the Lion onely, and the Wolf and the subtil Beast Hyæna is stiffened with each of them one bone. Touching the Paps or Teats, this is observed by Pliny: The Beasts which have whole hoofs, and bring not forth above two young at once, these all have two paps, and not otherwise than between the thighs: the cloven-footed and horned in the same place. The Cows have four, the Sheep and Goats two. Those which are fruitful with a numerous brood at once, and have toes or claws in their feet, have many more along their whole belly, in a double rank, as the Swine: the nobler sort have twelve, the vulgar fewer by two: in like manner the Bitches of Dogs. Others have four in the middle part of the belly, as the Panthers: Others two, as the Lions. The Elephant onely hath two under the shoulders; not in his breast, but on the side bid under the arm-holes. None have any between their thighs which have claws on their feet. They who live upon the prey have Claws, five in the foremost feet, four in the rest. Lions, Wolves, Dogs, and a few other beasts have also in their after-feet five nails, one whereof hangs close by the joining on of the leg: the rest which are less have five claws. All those that have toes or claws, have also Nails. But the Apes have them bowed or roof-like rising up: the ravenous crooked: in the rest they stand right out, as in dogs, except that which commonly hangs upon the leg. They have solid or whole Hoofs which bear no horns: but the horned are cloven-footed. They say that the Swine in some places of Illyria (Scalavonia) have whole hoofs. They are renewed onely in that kind of beasts which bear burdens. Lastly, they have all Tails, except Apes, and those that bring forth eggs, according to the need of their bodies. They are bare in those that are rugged, or have bristles, as in boars: little in those that are full of hairs, or woolly, as in bears: in those that are very long they are full of hard hair, as in horses. Being cut off they renew again in lizards. In kine the tail is longest of all, and at the lowest part long-haired. The same are longer in asses than in horses, but in those that bear burdens, full of rough hairs: Lions have them in the lowest part as they are in Oxen and in Rats: with the Panthers not so: with Foxes and Wolves they are full of rough, or flock-like hair, as in Sheep, but longer.

No less is the diversity of the Inward Parts. The Teeth in the brawn and wild boar stick right out: in the Dog and the Lion, like as if they were indented or fawed: in the Horse and Ox they stand close together; the foremost are sharp, those more inward are plain: The horned beasts want the one row: they stick not out in any, where they are as fawed: none that have horns do either stick out or are fawed: but in all these they are hollow, in others solidly fixt: they are in apes as in men. In those that chew the cud, in the lion and the dog they are various or interchanged. In Swine they never fall out. The Tongue in Crocodiles cleaveth wholly fast: in Lions and Catts it is very rough and sharp, like a file. In the Elephant especially broad. The Ribs in Swine are ten, in horned beasts thirteen. The Heart in all of them is in the middle of the breast. In that of horses, oxen and harts are bones found. It is proportionably the greatest in mice, hares, rabbits, deer, hyæna's, and in all beasts that through timidity become mischievous. The Lung is in the Tortoise without blood: In the Chamaeleon 't is according to proportion the greatest, and nothing else within. The Belly in those that are whole-hoofed is rough and hard: in some of the

Land-

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Land-beasts it hath a sharpness as of teeth, in others toothed, yet like a lattice. Touching the bellies of those that chew the cud we have spoken in the second book. The Spleen is round in the double-hoof'd & horn'd beasts: drawn out long-ways in those that have many claws: very long in those that are whole-hoof'd: the left in the cattel that are in the region of Asia which is called Scepis. All they which generate a living creature have Reins: of those which bring forth eggs, onely the Tortoise. None of those that bring forth eggs, except the Tortoise, have a Bladder: also none, save those that have a bloody lung: and none of them that want feet. Concerning the Fat and Tallow it is observed, the Horned Beasts which are toothed but on one side, and which have pastern-bones in their feet, abound with tallow; the double-hoof'd and those that have their feet slit into toes, and are not horned, with fat. The tallow is congealed together, and when it is cold it's brittle; and is always in the end of the flesh. On the contrary the fat is between the flesh and the skin moistened with juice. Some grow not fat: all that are fat are more barren. The Marrow in young beasts is reddish and in those of old age it grows white: this is onely in hollow bones, neither is it in the thighs or shanks of labouring cattell or dogs: it abounds in those that are fat; it is like tallow in the horned beasts: in Bears there is none, in the Lion among the bones of his thighs and arms very little. And fo much of the parts.

Nature hath designed the earth as the Place for most of them: and the water to a few of them, as to the Crocodile, the Sea-horse, the Castor, the Sea-tortoise. Some of these and the other have certain dens or lurking places: some dwell among the trees. You may find some in a cold, others in a hot climate: some things in the same soil are denied to some of them. In Cilicia (others read Lycia) the Bucks and Does pass not over the mountains that border on the Syrians: the wild Asses go not over the mountain that divides Cappadocia from Cilicia. On the coast by Helle-spont the Harts do not go to and fro to other territories: and about Argensua they do not go beyond that lofty mountain. In the Island Pordoselene (or Poroselene) the weasels run not over the way: the Moles of Bœntia brought over into Lebadia avoid the very soil; which yet in Orchomenus, which is close by, do root up whole fields. The Hares brought over into Ithaca die, and that upon the uttermost shores: in Eubus there are no Rabbits. Among the Cyrenians they have had frogs that were dumb: but the kind of those Croakers brought out of the Continent continues still. In Olympus a mountain of Macedonia are no Wolves, nor in the Island Creta (now Candia). 'T is more wonderful, that there are no Harts in that Island, except in the region of Cydon. In Africa are neither wild Boars, nor Harts, nor Goats.

'T is likewise in vain to look for an uniformity in their Food. Oxen, or kine, Harts, Horses, Swine feed on herbs and fruits: the lower sort whereof is the food of Sheep; the higher, as branches and twigs, of Goats. Wolves, Lions and Dogs delight in flesh: Beavers and Catts in fish: The Chamaeleon in flies. Some chaw their victuals, some not. You may perhaps rightly reckon the Apes and Monkeys among those that eat all things. It is believed, that the Bear lives in his dens in the winter, out of that humour, or moisture, which he sucks out of his fore-feet, which then swell.

Touching their Generation take this, That Some bring forth without copulation, as the Mice in Egypt after the running back of the Nile. Those that admit of copulation do it most in autumn, summer or the spring: the Bulls and Bears do it with raging violence, the Dogs not. The greatest number bring forth their young alive; the Tortoises, Crocodiles, Lizards, &c. eggs. I learn from Refendus that Mares in Portugal conceive a mole (lump of unshapen flesh) from wind; and from Others, that Cows being big do carry their young onely on the right side of the womb, even when they carry twins. Their time of Going with young wonderfully varies. The Wolf goes a moneth or at the utmost XL. days; the Dog (Bitch) nine weeks; the Sow four moneths; the Goat five; the Sheep about six; the Cow ten;

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ten; the Horse eleven. The same (variety) must you understand of the number of their young: the Mule, as is believed, never brings forth: the Wolf but once in it's life: the Hare brings forth abundantly.

Growth. Of their *Augmentation* it may suffice to say, that the Whole-hoof'd and Two-hoof'd are greater than they that have claws (or fingers) except the Rhinoceros, the Camel, the Sea-horse, &c. and they differ in greatness from the those of the same kind according to their places. In the Region of *Camadu* the Rams are not less than the Asies: About *Taprobane* the Tortoises are so great that they weigh CIII. pounds: the Lizards in *Ethiopia* are eight Cubits long.

Life. Some of them have a long, Others a short *Life*. Hares and Cats attain onely to the seventh year: the Ram and the Goat seldom to the tenth: the Sow arrives at the twentieth: the Dog sometimes at the same: the Cow scarce exceeds sixteen: Horses (the male-kind) sometimes reach the thirtieth year: yea the seventy fifth year, as we read in *Pliny*. 'Tis evident from the monuments of the *Athenians*, that a Mule hath lived eighty years: and that the Harts have lived a hundred years you may find in History.

Plin. H.
N. l. 8.
c. 42. &
43.

Animal
Actions.

Unto the *Animal Actions* appertain the external and internal senses, their appetites, and their faculties of removing from place to place. The Bucks (and Does) and Lynx excell in sight: the Hyenæ and Cats see by night: the Moles little or nothing: the Hares are quick of hearing: Camels, Harts and Lybian Mares are delighted with the musick of the pipe: every one knows that Dogs are excellent at smelling: Swine have so little (Smell) that they are not moved with the stench of filthy mud: the Ape exceeds us in tasting, as the vulgar vers runs. If we take notice of their Inward (senses,) Some are exceedingly stupid, as the Buff, who, if his head be coverd, thinks his whole body to be hid; Others are most acute: there is nothing that the Apes do not imitate: Foxes, ere they go over the ice, first by laying their ears to it, find out it's thickness: Dogs remember journeys though very long: neither have any, except Man, a greater memory. Harts, when they hear the barking of dogs, run along with the wind, that therewith the sent of their footsteps might go farther off. For the rest you may look

Cicero de
Nat.
Deor. l. 2.
Plin. H.
N. l. 8.
c. 27.
Plin. H.
N. l. 18.
c. ult.

in the chapters of Horses, Goats, Wolves, and Others. But it is mostly to be wonderd at that so many four-footed beasts do know the things whereby they may be cured of their diseases. The Panther seeks Mans dung. The Tortoise recovers it's strength against serpents by feeding on Savory or Marjoram, or, as Some will have it, Pennyroyal: the Weasel by (eating of) Rue, in its hunting of mice, when it is environed with them in battel: the Cow in *Cyprus* cures itself against it's torments in the belly by the excrements of men. In their Appetite, their Love and Lust especially shows it self: so great is that of Apes toward their young, that they kill a great part of them by embracing them. Sows swelling with lust are carried on with that fury that they would tear a man: the Bulls also are so greatly furious, as that the brazen Cow at Syracuse, was enter'd upon, and bespattered with seed by a wild Bul which had wandered from the beard. On the contrary the Camel shuns copulation in open view. *Pliny* tells us, that a Horse, his eyes being uncovered, and he thereby seeing that he had copulated with his dam, fell down a steep place, and so died. Touching their Motion we know that Some are swift, Others slow. *Xenophon* believed, that no living creature doth æquall the Hare in running. But *Horace*, when he would expresse a most speedy carefulness, said swifter than Harts: the Elck makes so long a journey in one day, as a horse doth in three. I will say nothing of the Arabian Asies: for the common Asies are most slow, as is also the Tiger, as *Bontius* informs us.

Livius
l. 41.

Plin. H.
N. l. 8.
c. 41.

Xenoph.
De Ven-
natione.

Voice.

I had almost forgot to speak of their Voice: of which ne'retheless there is a wonderful variety in this sort of living creatures. For the Horse neighs, or hinneys: the Bul low's, bellow's, or rowts: the As howls: the Ram clatters: the Sheep bleats: the Swine grunts: the wild Boar grunts and cries out aloud with grinning: the Hart

and

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and wild As clucks or cackles: the Goat chatters: the Lion roars: the Tygers voice is hoars: the Panther cries: the Libbard waws as a cat: the Wolf howls: the Elephant bray's: the Dog barks: the Fox yelps: the Kidling mew's: the Hare cries like a child: the Mouse chirps or squeaks: the Weasel maketh a noise with it's teeth: the Rat also, with the sawing of it's teeth: the Frog croaks.

But let us come to their Use. For no man will deny that they are made of God for use. our benefit. Hence they are to us Aliment or nourishment, Medicin, Cloathing, and for other Uses. Nourishment: For those that are covered with hair supply us with milk, out of which is made butter and chees: the labouring cattel give us flesh, as do also those which live in desarts, Harts, Fallow-deer, Boars, the Elck and others. Neither are we onely provided for with necessaries; Nature hath not forgot to store us also with delicacies: Martial calls the flesh of the Hare the chief daintie: the flesh also of a tame Swine may be seasoned or dressed fittie severall ways, that they may seem to be so many sorts of wild Boars flesh. Medicaments: For they have taught us some: 'tis not one alone wherewith they supply us: we have it from the Weasel and Tortoise that savory and rue are available against venoms. The Sea-hors hath taught us the art of blood-letting by opening veins: the Harts have led us to the knowledge of this, that ditany is good to draw darts (out of the flesh.) You may consult History touching remedies against diseases. Cloathing: We have great advantage from the cattel by the use of their skins: we are beholden to them for the preservation of our bodies. The richest of the Caspian people made their garments of Camels hairs: those (garments) also are made of wool which *Gesar* called *subcoacta compressa*, *Helmodus* Presbiter *feltra* & *filtra* felts, the same with those called by the Greeks *Pileta* and *Pilota*: Out of these or of the quilted coverings made of course wool or flocks, or out of hides the soldiers made coats or coverings, wherewith they might avoid the darts. The Dead ones supply us with skins. The first coats that God made, were out of these. *Hercules* was cloathed with the skin of a Lion. The ancient German Garments that covered their shoulders and breasts were made of Sheep-skins: their start-up-shoes and baggs were of raw hides: the shoes of their more noble persons were of tawed and dressed leather: lastly the *Frieslanders*, by the command of *Dryfius*, brought the hides of Oxen into military uses. Touching other Uses I shall onely say this: That Dogs serve for our preservation: Cats defend the meat from the Mice: the Horse, the As, the Mule, the Camel are used for carrying burdens. Out of the Nervs or sinews are made fiddle-strings. With the yard of the Camels are bows best spanned or stretched out. The cords, wherewith the arms of the dart-shooting bows are kept together, are twined or wreathed out of the sinews. Paper is smoothed or polished with Boars teeth. The vulgar or common servants among the Romans were driven to their places of meeting by certain persons sounding with the horns of oxen. *Ambrose* said that wine flowed down mens throats through a horn. The Barbarous Northern people did certainly drink out of the horns of the wild Bulls. The altar of *Apollon* of *Delos* made of horns is accounted among the seven wonders of the world. Bulls gall is of mighty vertue, even in copper, and in colouring skins of a golden colour. What shall I say of their Dung? of the differences whereof *Pliny* thus speaks: Some

Aristot.
H. A. l. 5.
c. 2.
Dionys.
Halicarn.
l. 21.

Autours, for the manuring of ground, especially commend Mans dung, calling it human dainties. Others prefer that which men drink, viz. Urin, when hair hath been steeped in it, or Tamers work-houses. In the next place they praise the filth of Swine: *Columella* onely condemns it. *Varro* adds to his precepts, that corn-ground should be nourished with that ors-dung, which is lightest, but the meadows with that which is heavier, as also that which is made by those who feed on barley, as bringing forth many herbs. Some also prefer the dung of working-cattle before that of the Buff or wild Ox; and that of the Sheep before that of the Goats. But the Ases dung is esteemed above all, because they feed most leisurely.

Plin. H.
N. l. 17.
c. 9.

Touch-

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Differ-
ences.

Touching their Differences we might infinitely treat. But how we have digested the whole host of Four-footed Beasts into their severall orders or ranks, the (following) History will teach us. First you will meet with the Whole-hoofed; next Cloven-hoofed, both such as chew the cud, whether horned or not, and those that chew not the cud: lastly those that have fingers & toes, or claws, both those who bring forth their young alive, whether on the land or water, and those who bring forth eggs, which are either cover'd with a shell, or not. But I will not further proceed herein.

Now, Courteous Reader, take my labour in good part; and at the next Marts or Fairs expect the History of Serpents & Insects; after which shall follow, if it please GOD, the History of such Creatures as fly on high, & of those Under the earth, and also of Man.



THE NATURAL HISTORY OF THE FOURFOOTED BEASTS.

THE FIRST BOOKE.

Of wholehoof'd fourfooted Beasts.

CHAPTER I.

Of the Horse.

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hidped.



drov. de
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Latine
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having as
it were
claws for
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Third
kind are
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(in Greeke
Polyschides,
Polydactylon,
in Latine
multifidum.)
They have
all feet to
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of hands
with their
forefeet,
as the whole-
hoof'd doe
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hinderfeet.
Among the
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the Horse,
the Asse,
the wild
Asse, the
Mule, the
Unicorne,
and the
Elephant;
whereof
wee shall
treat in
order in
this first
booke.

IN the living creatures that are brutish, or without reason, and having blood, hath nature bestow'd feet, on some two, on some four. The four-footed, (in Latine called *Quadrupes*, in Greek *Tetrapoda*, by Aristotle called *Peza*) are comprised under three main kinds. One whereof is wholehoof'd or solidfooted, or onehoof'd (*Aschides*, *Monony(chon)*.) Another fort are cloven-footed, having two clefts on either side, afore and behinde. In Latine *bisulca*; in Greeke *Dichela*, having as it were claws for hoofs. A Third kind are as it were toed, having many partings (in Greeke *Polyschides*, *Polydactylon*, in Latine *multifidum*.) They have all feet to goe on, but those that have toes doe the offices of hands with their forefeet, as the wholehoof'd doe with their hinderfeet. Among the wholehoof'd are the Horse, the Asse, the wild Asse, the Mule, the Unicorne, and the Elephant; whereof wee shall treat in order in this first booke.

Wee begin with the Horse, which hath the preeminence among the labouring beasts, called *jumenta* from *juvando*, or helpfulnesse. Demosthenes reckons him among City-ammunition. The Romans out of the publique purse layde out 10000 peces for this beast, and took them away from those, who could not goe to warre. A horse with faire trappings was held an ornament to any Consul, or Emperour. In many countries care hath been taken that no Horse should be exported. The Circassians suffered not the common-people to keep horses. M. Anthony forbid riding on horseback in cities. Athesa a Scythian King carried his horse with his own hands. Hector's wife Andromache herself gave oates, and hay to her husbands horses, knowing hee took delight in them. Theophilactus, Patriarch of Constantinople under Lacapenus the Emperour, kept above 2000 Horses, and was so intent, and earnest in feeding them, that he gave them pistack-

nuts, pine-apples, palm-fruit, raisins, dried-figs, and all of them choyest, moistened with perfumed wine, and mixt with saffran, cinnamon, and other costly druge; in this excessse going beyond the Emperour himself, who layd in the manger for his Horse, called the winged, raisins, and kernels in stead of barley. The Moxy, a people of Tartary, on a set and solempne day yearly after some ceremonies, flaid a horse, eat the flesh at table, stuf'd the hide with chaff, then reare an altar, set it up thereon, worship'd it as a favourable deity. In Petrarchs time there lived one in Italy who doated so on his sick horse, that he spread under him a silk bed, with a golden pillow. And when hee himself was layd fast by the gowt that hee could not stirr, and must be ruled by the Physicians Laws, yet would hee needs bee carried by his servants, or be layd on another horse, and taking his Physicians with him twice, or thrice a day visite his sick horse, and sit down by him sighing, and troubled, stroking him, and murmuring comfort to him. The mighty King of Narfinga had a horse thought to be of such a value for the incredible plenty of jewels, wherewith it was laden, that hee was worth one of our cities. In such esteeme is the Horse among most nations, as Aldrovand shews more at large.

But to come to his Name. Hee hath gotten The divers names both with the Greekes, and Latines. By the Greekes *Hippus* and *Polos* (which yet is properly a Fole.) By the Karians *Alla*; by some *Kalpis* (which seemesto fit the ambler; by the Ligurians *Damnos* and *Ikkos*; by the Etimologers *Kaballor*, from the manger, and his ever-eating; *Ergatees* is a wrought one, or an ordinary one the same with Cabalus, so the Latines use it. *Innos* is that that hath an Horse for the fire, and an asse for the dam; *Hinnos*, whose dam is a mare, and the fire a horse. Aristotle takes it for a nag, *Keles*, and *Axyx* is a Horse when back'd; some say a generous one, some a saddle Horse, or a bare Horse; some, but mistaking, a curvetter. *Chrysampus* is rather an epithite or addition then a name, taken from the goldstirring that ties his foretop. The Latines call him *Equus* from payring, or matching them in wagons. By Scaliger *Eniachus* and *Canterius* from gelding; (Varro)

Fol. i

Capitoli-
mus.

Ioseph.
Barbar.
Itiner.

Ludo.
Rom.
Navig.
14. c. 11.

Name.
Hippus.
Polos.
Alla.
Kalpis.
Damnos.
Ikkos.
Kaballor.
Ergatees.
Innos.
Hinnos.
Keles.
Axyx.
Chrysampus.

Equus.
Equus.
Equus.
Equus.

Equus.
Equus.
Equus.
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THE

drov. de
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Tetrapoda.
La.
Monony.
chon.)
Another
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cloven-
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having
two clefts
on either
side, afore
and be-
hinde. In
Latine
bisulca;
in Greeke
Dichela,
having as
it were
claws for
hoofs. A
Third
kind are
as it were
toed, having
many partings
(in Greeke
Polyschides,
Polydactylon,
in Latine
multifidum.)
They have
all feet to
goe on,
but those
that have
toes doe
the offices
of hands
with their
forefeet,
as the whole-
hoof'd doe
with their
hinderfeet.
Among the
whole-
hoof'd are
the Horse,
the Asse,
the wild
Asse, the
Mule, the
Unicorne,
and the
Elephant;
whereof
wee shall
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order in
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drov. de
hidped.

THE NATURAL HISTORY

4 *Cardanus* writes thus; he had but one stone in the right place with swelling teats, such as Mares have: And besides a matrice, whereout he put forth his member, that was not greater than 4 fingers. When the Greeks would express a horses neighing, they call it *Chremetizein* and *Epichremetizein*, the Latine, *Fremere*, *hinnire*. The voyce it self is called *Mimigmos*, &c. Of the change whereof *Arifl.* writes, they differ much in their neighing. The she-folds send forth as soone as foled, a very small voyce; The males somewhat fuller, and greater, which dayly increafes. A Horse of two years old, when he begins to engender, neighs strongly; and the Mare clearer, and shriller then afore; and it continues fo, for the most part, till 20; after that age their neigh is feeble. There are that never neigh in company, *Mirallus* calls them dumb: when they goe, or pace, they make a noyse with their feet, striking the ground with their hoofs: whence the Latines call them *Sonipedes*, *Homer* *Hypijchees*, or great noyse-makers; because they cannot fo well bend their hams, they are most weary going up hill, and falling, they run headlong; going down hill, they can well endure their burden, because they have four thighs. Their nimbleness, both the *Epithites* give them, that we meet with in Authors, and examples testifie. *Homer* calls them *Okyades*, *Elaphropades*, &c. fleetfooted, and deerfooted. *Oppianus* writes, that those of *Heria* were fo swift, that Eagles onely might be compared with them, or Hawks of the *Circus*, where they ran for mastery. *Persius* his Pegasus is said to be winged. Some write that the *Sarmatae*, could dispatch with their long journeys of 150 miles, without drawing bit, or baiting. In *Arcadia*, if we credit *Pertomannus*, they hold a more fleet pace day and night without resting. In the *Albanian* war, *Probus* the Prince, (men report) tooke one that in one day would travell an 100 miles, and would hold out fo forty ten dayes together. But, it is questioned, whether Mare, or Horse are swifter. *Homer* gives the palm to the Phœreian Mares. *Meneas* his Ætha was exceeding fleet. *Horace* choofes to say, that Horses are fitter to draw then Mares. *Pliny* faith, that Mares stale as they run. The Mare of *Crauxida*, in the eight *Olympiade*, outran all the Race-horses. Wee read that *Heracles* the *Theffalian* his Mare, and shee was great with foie (*Pliny* calls her *Echeeracides*) had the better of all the running-horses in the *Olympique* Games. But *Oppianus* writes, that males are better for hunting; that Mares cannot fo well ride way in woods, in long courses. What *Cicero* means by the Horse called *Admiffus*, see in *Aldrovandus*; He grows restive, lessing, or loosing his pace, if he stand long idle in the stable. Therefore when King *Antigonus* with his Cavallery was besieged, and fo straitned, that he had no place to exercise his Horse, he caused them to be thrust up by the head, that their forefeet could not touch ground, and forced them to strike with their hind feet, which made them sweat, as if they

had travelled. It is well knowne, that Wasps breed in the marrow of a rotten Horse.

If you look upon their Nature, they are Their very fociable, they fop their drink, and plunge nature. their nose deep in the water, which is a signe of their boldnes: their minds are ever on rack and manger, and can better endure thirst then hunger: Mares stale often; and their monthly cleansing: they dung more dry, then wet stuff, because they are kept at hard meat: If you ride them hard, and tire them, they fume: the cause whereof *Galen* hath exactly declared; They dream on what they are wont. Aphor. 5. 2. 45. ed: They sleep commonly standing; especially geldings; who are more drowfy then others. When they are angry, like dogs, they shew their teeth, and bite: They love to be strok: they eagerly love their folds. Hence it was that *Darius* after his defeat escaped on a Mare out of the battel at *Iffus*, shee halting home to her hole. And the *Tartarians*, when they goe into any land to seek for prey, or plunder, where the Sunne shines for a good part of the year, they leave their folds on the borders; fo that the Mares marking their night-journey at their return, goe strait to their foies. The Mares are seldome, but sometimes mad; as when they see their shape by reflection in the water, they are taken with a vain fellove, and forget their meat, and pine to death; they are brought to their wits againe, if you cut off their maine, and bring them to water: then the memory of the former ugly shap that they saw, will be abolished. *Ælian* writes that the *Lycopolitan* Horses did their best, that they might seem comely to their Wagons. Unto their inward senses, their wit, teachableness, memory, love, and faithfulness towards their masters, chastity, and courage doe belong. It is ascribed to their wit, that they know the enemies of their partye, fo that they bite their enemies in Battle: that, having lost their Riders that they loved, they pine themselves to death: that they shewe by their eares what they heare, and that they know well a skillfull Horsman. *Alexander* his Bucephalus, would vouchsafe to suffer none at any time to back him beside his Lord, and that with his Kingly caparifons: and having received deepe wounds in a Battle, he fell not before he had set his Lord safe downe out of danger. *Solinus* and *Suetonius* tell us, that *Cajus Julius Cæsar*, his Horse would receive no man on his back besides *Cæsar*. A certaine Pannonian Physition, his Horse being let loose afore the doers, would wait even a whole day, untill his master returned from the sick; and when he came againe, met him rejoicing: it is well knowne by the example of the *Sybarites*, that they may be taught to dance, who were come to that hight of madness, that in their drinking-feasts, they would teach there Horses to dance to the Pijpe. *Scaliger* writes of a Horse that he saw, that was little and misshapen, which a certain Juggeler carried about to shewe, by whose desire also he would sometimes

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times doe all his trickes, that he would walke, goe a round trot, run, dance, either on foure-feete or on two. Wee have seen them drinke wine, sitting on their buttocks; that they have bourn up their first foure feet, to carry a goblet: that they have bourn up a basen with their legges, as if they had bene to be washed by a Barber; as we see the painted Asse with the Coule: they will lye all alonge on the ground, stretched out at length: that they will beckon unto you, closing their eye-lids: and lift up their head at their master his nod: and turne on their back, lying with their face upward. It is knowne that they knowe their stable, and returne willingly home. Therefore *Galba*, when there was a dispute about the possession of a Horse, whose he was, commanded that he should be led vailed to watering, and when he had drunke, he would go home to the right stable. As *Deuxippus* his Horse was fo taught, that he would gallop with him without a bridle, and when he went fairly afore, he would stand still. *Strabo* tells us, that the Horses of the *Nigrites*, followed their masters like dogs. We read in *Herodotus*, that they were taught by the *Yarce*, to lye down on their belly. In *Paribia* a Horse boud down to *Narva*. Another at *Paris*, made obedience with bent knees, to the Queene of *Louis* the Twelfth. In the year 1636, we saw at *Venice*, that a Horse would leep through wooden hoops, like a doge, and jumping with a lively swiftnesse turne himself round; that they have a good Memory, the sound of the Trumpet especially shewes us, which as soone as the Horse heares, he prickes up his eares, foortles, he neighs, he champs upon the bit he beats the earth with his hooves, no ground will scarce hold him. A certaine jester also in *Tzetzgen*, riding upon a Chariot-Horse, lost his dinner, because the Horse lighting by chance upon the marke-pillar, thinking it to be the circe, he went round about the pillar till night, running with great violence. To say nothing of that *Theolofian* writeth of the Horse of a certaine Bishop, that his brother had so wonted, that as often as he heard these words, *O God, attend to be my helper*, he would leap often, and high from the ground, curvetting, and bounding. As concerning their love, gratitude, and faithfulness toward their master, examples witness for them. *Antiochus* his Horse, his Lord being slain in battell, cast himself, and rider *Centeretris* a Gaul man headlong down. A Horse of a *Seythian* King, with kicks, and bites killed the conquerer, comming to plunder. *Dionysius* his Horse, being left by him, sticking in the mudde, (as we read in *Pliny* out of *Philestus*), as soon as hee got out, traced his masters steps, though a flock of Bees clave to his back. *Homer* faith, that *Patroclus* his Horse wept. *Virgil* writes the same of *Palantus*, *Suetonius* of *Cæsar*, *Cardan* of his own Gennet. *Pliny* also hath delivered, that many Horses have such an affection to their masters,

that they will mourne for them, and sometimes bewaile them with tears King *Nicomede* being slain, his Horse starv'd himself to death. The same is related of the Horse of *Socleran Albanian*, after hee had sold him away.

Of their Chastity you may read in *Ælian*, *Varro*, and others. *Pliny* breefly thus: A Horse his eyes being uncovered, and knowing then that hee had covered his dame, fought a steep place, and there killed himself. And in the *Reatine* Province, a Mare for the like reason perillit, and tore the Carter in peeces, who had so deceived her, for they have understanding of their kindred; therefore a Mare will choofe rather to keep her sister of the former year company, then the dame. About the folds jealousy, that is sprung from an incestuous commixture, see *Aldrovandus*.

Of the Courage of the Horse, the same Author speaks at large. Let it suffice, that *Pliny* hath advised, that you hear of the Horse made, that they may condescend to cover an asse, for they pride themselves in their crest. There have bene those also, that would win a course without a wagoner. In the circe, put into Chariots, they undoubtedly manifest that they understand both hartning, and prayle. In *Claudius* Hi. N. *Cæsar* races, a Charioter being shaken at fet- 1. 8. c. 42. tling out, from his seat, the Horses clad in white, won the race, dashing out of their way whatever hindred them, and performing all against their corivalls, as if they had had a guide, flaming men, and their skill, that they should be outdone by horses; and comming, having run their course, to the goal, they stood stone still. It was a great matter of divination of old, that Horses in the Plebejan-games, having cast off their guide, ran into the Capitol, and thence compassed the feat there, (as *Pliny* adds.) And the greatest omen of all, that *Ratunnea*, being Conqueror of *Vesja*, ran with lawrell, and crownes thither; from which gate came to beare the name. In *Pausanias* we read that *Phidatus* of *Corinth* his Mare, her name was *Awa*, her rider falling off at first starting, held her course as exactly, as if he had been managed by a Horseman, and reaching the goal, the turne herself; but hearing the Trumpet found, shee was mad to be running, and preventing the Judges, she stood still, as knowing that she had won. If you mark their Sympathy, and Antipathy: The Horse holds much friendship with Hens, and the Buzzard; but is at enmity with the Camel, Elephant, Wolf, Beare, Sow, Sheep, Ase, Serpents, a Fish called *Trachurus*, the Sea-Calf, Apples, and Figs, a kinde of Barly called *Pelwort*, of a black colour, and dead karkasses. When *Cyrus* encountered *Crauxus* his Horse with *Camels*, the Horse fled. *Xerxes* placed his *Arabians*, mounted in *Camels* in his rere, least his Horse should bee frightened. In the *Tarentine* war, the Horses being terrified by the greatneffe, the misshapen Bulk, and strange Hew, and hideous noyse of the *Elephants*, thinking those unknown beasts to be huger then indeed they were, fled all

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which cause a great slaughter. *Cæsar* wading over a River in Britain, mounted on an Elephant, amazed the British Horses. *Aporta* reports, that they cannot abide so much as drums made of the skins, either of Elephant, or Camel, or Wolf. *Pliny* testifies, that it went by tradition, that a Horse will burst that under his rider trends in a Wolfs steps. We read in *Ælian*, that if a Wolf tread on a Horse heel, as he is drawing a Cart, he stands still, and stiff, as if with the Carter he were frozen. *Pierius Valerianus* reports, that you cannot get a Horse to paffe by, where a Wolfs howls are buried. *Pliny* saith, that if you ty great teeth to horses, they will never tire. We shall speake of *Lycopadi*, and *Lycophori*, or Horses that men ride with bits, when we shall deal with the differences of Horses. We owe it to *Pontæus* relation, that *Beare* in the wilderneffe, are affrighted by a drum, made of a horsehide. Geldings will by no meanes come neare a *Lion*, others not gelt will run on him. If *sheep* stand in a stable wherein Mules, Horses, or Asses have stood, they easily get the scab. *Braying Asses* in *Darius* his expedition against the *Systians*, troubled their Horses. Of *Serpents*, and *Horses*, *Silius Ital.* hath written. The tayl of a *Trachurus* hung at a Mares belly, makes her cast her foal, if we beleve *Ælian*. They cannot abide the sight of a sea-calf. They fwood, if they carry Apples, or Figs; but come to themselves again, if you lay bread afore them: They will not touch a kind of barley, that grows in Thrace, near a Province of the Scythians and Medes. They run mad, if you smeare their nostrils with the herb lard, or benjamin. *Gesner* was informed by an old man, that *Gentiana*, or *Pelwort*, causes Mares to cast foie. If they tread on henbane, they cast their shoes. If Horses drink of the River *Sybaris*, they are troubled with neezing: if of *Collinuris* in Thrace, that fall into the land of the *Abdeerites*, they run mad. The same is said of a well, or pit, not far from *Potnia* a city of *Boeotia*. *Silius Ital.* writes, that *Cato*es Horse, though spurr'd on, would not approach a black Moore in black harnesse. We have it from *Homer*, that they loath carcases.

amongst 40 men. And also amongst the Persians in their Feasts on their beath-day, they had set before them whole roasted horses: and among the Gearmans, they are both wild and tame horses, untill it was forbidden by *Gregory* the 111. *Brucerius* relates, that he hath heard that the Inhabitants of the *Alpes*, eat colts. *Blond* also hath bene a delicate: *Pliny* indeed reports that the *Sauromatae* doe live of hirse, especially puls, and also rawe meal mingled with blood out of the thigh veins. *Mesotinus* and *Paulus Venetus* have written, that if travellers be surprized with hunger and thirst, they satisfie themselves with opening of vaines and drinking of blood. We read in *Horace*, that the *Caucany*, who according to some are *Besalte*, and according to *Acron* and *Porphyri* are *Spanish* nations, delighted in the same food. Concerning *milk* there is no doubt. For the *Scythians* give their children Mares-milke, as soone as they are borne. Thence have they their names of horse and milke-suckers. The same lay the milke in the Sun, that the thicker part may settle downe, and by and by they seath it. They say that it becomes like white wine. The *Molchy* once, the servants of the *Tartars*, were wont to present them Mares-milke upon their journey, as they came with their Captaine to demand tribute. Writers are not agreed what *Hippacks* is. *Hypocretes*, *Diocorides*, and *Pliny*, write that it is chees, which he ad smells of venome, and answers in proportion to ox-milke, others beleeve it to be Mares-milke crudled. *Theopompus* writes that it was *Scythian* food of Mares-milke; however it is, we read in *Theophrastus* that they could live 11 or 12 dayes together upon that and licourise: *Hypocretes* testifies, that for the most part they use Mares-milk chees. Neither is that any wonder, since some relate, that *Zoroaster* lived once six moneths with milke alone, which *Athenes* declares also of another. As for what belongs to *Medicine*, Horses milke, whey, blood, grease, curd, teeth, heart-bone, liver, stones, gall, hayre, hooves, sweat, foame, spittle, stale and dunge hath place therein; their *Milke* is very purgative, as *Diocorides* delivers. *Whay* serves to cleanse the Ulcers of the reins, to wit that, that by feathing is sever'd from the milke, if we beleve *Æthius*. *Rhaphis* writes that a woman, if she unwittingly drink Mares-milk, if shee presently accompany with her husband, shall conceive. I find also in *Pliny*, that the same milke is good to walsh the matrix. Their blood is of a purifying quality, but whether that of mares, that have taken horse, or of stallions, or of either sex, experience may best decide. *Pliny* writes, that the same is good for the Kings evil: and fariers use it for divers diseases. The *Phragmaticum* drawn from the matrix, warme with oyl and wine, and smeared on over the whole beast against the hayr, cures it.

The *Gall* is of a malignant nature, and is reckoned among poysons, so that the Priest for that cause must not touch a Horse. His *grease*

smoked brings forth a dead birth, and the after-birth follows. His *marrow* is mixt with oiment for the cramp. *Curd* from the Mares milke is accounted a remedy against bloody fluxes, and colicks, say *Diocor.* *Gale.* *Avicenna*, and *Haly*. Meal made of their teeth sprinkled on the privities cures many, cures their greets. The teeth that a Horse first sheds tied to infants, eases them in breeding teeth, and with more successe, if they have not touch the ground. *Sextus* writes that with a touch they heal the toothake; for, hee adds, that if an infant kisse a horse mouth, the pain of the teeth is not felt, nor will a horse bite an infant. The tongue in wine is a present remedy for the Milk, saith *Pliny*. The *Heartbone* neerly resembles dogsteeth: It carifies, or opens a fore, or if you take a tooth out of a dead horses jaw it helps a fore shoulder, *Pliny* saith, infallibly. The *Liver* laid up in a cedar chest, tempered with wine of chies, and water prevents the consumption of the *Liver*. *De Milk* drunke in fresh water cast forth a dead child, saith *Pliny*. Their stones dride, and drunke provoke lust. *Bunches* in their knees, and the hard skin of their hoofs or grown ground to powder, and given in vinegar are good against the falling sicknesse, as *Diocor.* *Galen*, and *Pliny* write. The *hayr* tied at a doore keeps flies, and the worms called cinches out, as *Rhaphis*, and *Albertus* have delivered. Three Horse brittles tied in so many knots within sores in the privities, helpe them. The ashes of the same taken out of the head, or belly stops a flux of blood. Warts are taken away, if you bind a horse hayr about them, because by tying that that feeds them is stop, and so they dry away. The ashes of their Hoofs sincere with oyl, and water on wax kernels, and apostumate, matter swelling in any part scatters, and removes them: and also bunches, if mingled with hot urine. The same being taken in with wine, and water helps against the stone in de bladder. *Hierocles* writes, scrapings pourd into a horses nostrils provokes him to stale. Their sweat, drunk with urine in a bath drives out belly wormes, and serpents; if you will trust the promises of some, mixt with wine, and drunke by one great with child makes her miscarry. If a knife, or sword warme out a wound be dipt therein, it is so infected, saith *Albertus*, that the wounded place will never leave bleeding till the party dy. Their forme newly taken from them infuse in oyl of roses helps eares, though never so fore. *Gesner* commends their spittle as a remedy for the pestilential burning in the jaws, that sometimes in summer troubles especially shouldiers; Let the patient, saith hee, gargle horses spittle in his mouth, that is provenderd with oats, or barley: then brule together living crabs, presse out the moyssure, and walsh it again with the same; if you cannot get living ones, sprinkle the powder of crabs dried in an oven: after you have walsh it with horses spittle. Give to them that are so far gone in a consumption of the lungs, that they are given over, an horses some, or spittle in warme

water three dayes together, the sick person shall without delay be healed, but the horse shall dy. As for their stale, and dunge, let it suffice to have said, that mingled with smiths forge water it helps the falling sicknesse; the same sod in white wine is used against the collicke; and the bite of a Scorpion; and in water, good against a flux. Being fresh and put to the nose stanches blood, especially if third with chalk, and sharp vinegar mingled with Egg-shell beaten to powder, it prevents the over-bleeding of a wound. Their breath, as some feign, is a preservative against the plague.

The differences, or kinds, of Horses are manifold; the cheefe are borrow from places, parts, and certain accidents. From place, those of *Acarnan* are said to be greatest; whence it grew a proverb, when men spake of any huge thing. The *Æthiopian* Horses, (the wild I beleve) are reported to be wingd, and horned, and can endure no heat.

Those from *Agri-genium* were use to be sent of old to the *Græcian* games, and went away still conquerors. The *Alanian* were fleetest, and strongest. *Probus* had one, as men say, of such swiftnesse, that between sun, and sun hee went an hundred mile, and would hold out so ten dayes together, as wee have said. The *Englisch* are most pacers, few trotters, saith *Polydore Virgil*. The *Apanienfers* in *Syria* kept above 30000 Mares, and 300 they sent out for breed. Those of *Apulia* are cried up for the best war-horses, saith *Varro*, and *Volateran*. Those of *Arabia*, specially the Mares, in a day and a night, or thereabout, can rid an 100 mile ground, if we beleve *Varianomus*. *Arcadia* is famous for breed of mules tween-horses and three-asses, whence it hath the name *Hippobatos*. The *Armenian* are of the *Partian* race, but have greater heads, faith *Abisyrus*. The *Genets* of *Asturia* are small, having a soft turning in the opening of their thighs, have been in great request; but are unfit for warre. The *Barbaries* out of *Tunis*, and *Numidia* are swiftest. Those of *Bengala* are so hard hoof, that they need not be shod, though they travell among rocks, and mountains. In *Bisnagar* they are sold for 400, or 500 peeces of gold, and sometimes 800, because they are fetcht elsewhere. The *Britones* have short thighs and eares. Those of *Burgundy* most patient. The *Calabrian* best travellers. Those of *Cappadocia* best of all; They used to pay yearly to the *Persian* a thousand five hundred. Those of *Caraja* are brought by merchants into *India*, the natives use to cut two or three joynts from their tayl, that they may not swing their rider. Those of *Biscay* are whitish; brought into the farther end of *Spaine*, they change colour. Those of *Cilicia* payd for tribute 360 white Horses to *Darius*. Those of *Corfica* are gallant spirited, but low; some little bigger then sheep, faith *Procopius*; some add that they cannot be rode unless you close their eyes. The *Cretan* are so lusty spirited, a man dare scarce come near them. Those of *Cyrene* pinchbellued, but have

Pin.
H. N.
l. 20. c. 22.

Colum.
R. R.
l. 6. c. 30.

H. A.
l. 13. c. 27.
Plin.
Symp.
l. 6. q. 8.

Their use.

EXUS.

Brayer.
l. 13. c. 4.
Pin.
H. N.
l. 18. c. 10.

l. 2. cam.
olcil.
ton.

alen.
upit.
c. 33.

Cro.
Hist.
Polon.
l. 29.

l. 4. de
morb.
l. 28. c. 9.

H. P.
l. 9. c. 1.

Their
use in
Phisique.

M. M.
l. 2. c. 75.

Hor.
Barb.

Pin.
Veget.
l. 1. c. 17.

Pin.
Macellus.
Sextus.

In Sici.
lia.

H. Angl.
l. 1.
Strabo.
Geog.
l. 16.

irrepa-
rabilis.

Sagena.
Palus.

Marial.
Epigram.

have found feet, shortbreath'd if ridden, and of great bulk. The *Dacian* most fleet, with manes hanging to the ground, long taylor, and little heads. The *Danish* handsome, and famous for strength. The *Oelandi* of the Ile of the Gothique sea, the least titts in the world, but very reachable. The *Elean* pray'd for swiftness; the natives cause their Mares to be lead out of their coats to take horse, finding by experience, that it wonderfully betters the breed. The *Epirus* are biters, and froward, by the Elis they deserved the palme; they now call them *Aban*. *Vegetius* applauds the *Frigisci*, as outdone by none for swiftness, and holding out untired. The German horses are most trotters. The *Transylvanian* not so docible as others; but yeelding to none in maintaining a long course.

Those of Greece, whereof *Abysrtus* writes, have good feete, a great body, a handsome head, high afore, neat bodied, but unhand-some buttocks, no way answering the rest, swift and courageous. The *Hetrusa* are cap-headed and thick crested. The *Spanish* are great, and handsome bodied, straight, neat of head, their whole frame plainly distinct; but thin buttock, able, and stout travellers of a body, nor slender, nor leane, but fit for going, and needs no spur. Besides they are from the time of their foaling to their full age, well manner'd, and obedient, after untoward, and biters. *Rodericus Santius* saith, that so great is there fidelity, that when they fee themselves wounded in battle, they set downe their Rider safe from all danger: they commonly call them *Gennets*. Those of *Holland*, especially southward, are of baway bodies. In Friedland, their Horses are generous, thick-breasted, and fit for warre-service. The *Hunnisi* are of a great and bow-bending head, their eyes sticking out, narrow of nostrill, broad cheek, strong, and stiffe-neckt, their manes hang below their knees, great ribs, saddle-backt, thick tail, strong leg d, small footed, full and broad hoofs, hollowe bouweld, and the whole body full of nooks, no fat in their buttocks, no muscles in their necks, rather long, then high statured, hanging belled, great boned, leane, but handsome, and whose deformity it self is beautiful, their spirit moderate, and knowing, patient of wounds: they are otherwise called *Hunnici*: perhaps they are those of Hungaria, that, *Camerarius* saith, never shed their teeth.

Those of *Iberia* are swift, but not for a long course, handsome bodied, but tender hoof d. Perhaps they are not those of Spaine, but out of Iberia, betweene Armenia and Colchis; though *Oppianus* makes them the same. Of the *Indian* Horses, *Ælian* saith, that they are hardly stop when they run, unless by most skillfull horsemen. These know how to run the King. The *Insulres* are harder neckt then others, and of sparkling eyes. The *Isrian*, tall their backbone continued, and hollow, or saddle-backt. The *Lidian*, very long, of thick ribs and sides, and broad breasted. They can well endure heat, and thirst at midday. The

Massely are small, and fleet, governed onely with a swith, which is also said of the Moorish. The *Menapien*, or Gelders, are the onely warre-horses of Jermeney, and therefore much valued. Some will have them call *Cicambry*. The *Moscy* go unhod. The *Murcib*, will scarce take a bit into their mouth. The *Neapolitan*, are stout, handsome, and strong. The *Negrite* are almost of no use, because of the too much heat: as also because they are codsweld, that they cannot stale. In stead of hay they use shred fitches dried in the Sun: for oats they use hirse, for a horse trapped, and with his other furniture they will give nine slaves, at the most 14. The *Niser*, which *Oppeanus* prisheth highly, are most dutifull eafie paced and reined, final-headed, their manes long and thick, the haire hanging downe on each side, somewhat yellow. *Stephanus* and *Am. Marcel* testifie, that they have beene out of Media, they are also called *Nesei*; they were wont to send yearly 20000 of them to the King of Persia, about the time when the feast of *Mithra* was held.

Norway breeds Horses of a middle pitch, but those of an admirable stoutnesse, and speednesse, even in craggy wayes. The *Numidian*, taft not barley, nor wheat, being content with grasse, and hay alone. The *Parthian* are of fast, huge body; their hayr tied up in crisped curls. The *Persian* Horses are not much unlike others in stature, and shape, onely are discerned from others by a certain gracefull walke. They take their steps thick, and short, but their pace delights, and recreates the Rider, which they have naturall, never being taught it; they are reckoned among the pacers, or amblers, and rackers, like neither, yet like both: for a spur they have a gracefull gate, in a long journey of a strong endurance, of a proud temper, and, unless kept down by labour, dayly stubborn against their rider, swelling, ingenious: and, which is strange, in such a hote climate, wary observers of comelineffe in carriage, their crest arched, and bowing downe to their very breast. Among the *Pharsalick*, *Arif*, avers, there was a kind of Mare, called *Iusta*, that brought foals all like stallions; whence it may be, they have the name, *iustae*, or perfect. The *Polonian* are coveted by strangers, partly for their swiftnesse, and endurance of hardship, partly for their easie going. Among the *Psylli*, *Ælian* saithes that their Horses are no greater then Rams. What the *Saphariani* are, that *Vegetius* mentions with the *Armenian*, having applauded the *Persian*, I can in no Author find. I guesse they are from *Saphara*, a towne of Arabia the Happy, neare the Midland-Sea, which *Pliny* mentions, and *Ptolemy* calls *Saphara*. Those of *Sardis* are most cried up, their taylor are long, and bulshy, their crest short, their hoofs like Assees: of a strong, finewy limbs, ears prick up, if *Stradani* have well described them. The *Sarmaticus*, a kind not unhand-some, and in their kind neat, good racers, plain, and great bodied,

strong

strong of head, and of a comely neck. They geld them, least being enraged by the sight of Mares, they be borne away, and take head, or being high fed, they should run a madding, and by often neighing, betray their owners. *Pliny* saith, that that people, when they are to take a long journey, prepare their Horses by keeping them short, and hungry, and let them not drinke much, and so shall travell 150 miles without lighting. The *Scenite* are outgone by none in swiftnesse. In *Swethland*, and *Gothland*, they are great, and very serviceable in Battell, when armed, and are forbidden, by royal command, to be exported. The *Tartar* are most white. *Venetius* writes, that the great Cham keeps XM; so fleet they are, that they can ride 20 German miles of ground in one day: low crested, and with their feet they search for their food, and water under the snow, and are fleetier then others, as the *Moschi* say. Those of *Thessalie* have this brand on them, that they are Ox-headed. The *Thrasian* Horses are ugly, mishapen, rough-bodied, great-shouldered, saddle-back'd, crooked-thanked, and goe an uncertain jogging pace. Yet *Virgil* praises the *Delphique* (uncertain, doubtfull) oracle. The *Toringi*, *Vegetius* commends, setting them next the *Hunnisci*. *Volaterran* makes those of *Sardinia*, and *Corsica*, Isles of the *Tyrrhene Sea*, to be very low, but generous, and restless. And thus much of their kinds, in respect of places.

Very many differences also meet us taken from their severall shaped parts, some are stild Elaphopodes, or hartfooted, from their deers-feet, who have bones in their hough joynt, that make them of a hobbling pace, that they tire their rider with their shuffling, so hard they set. Some in the same parts have short, and low bonds, and their hoofs come to the inmost part of their heels, so that they trail, and drag their legs after them, and halt; these are dog-footed. Some are wagers. *Abysrtus* calls them *Euruskeles*: not having a right troak. Some tooth their heads up, (or hold them like a Pig on a spit), others are unlike jaw'd, one jaw hard, the other soft; from their accidents, or qualities, they are distinguish'd (to let passe the rest) from their colour. In which respect, they are some fleabitten, some streaked, some pided, some all of a colour, white, black, red, chestnut, &c.

The spotted, especially with great coleblack spots, and ringlets; whether on the thighs, or back; at length, or distinct on the neck, are counted the noblest, and are thought the choyser, because nature seemes, in so marking them, to keep a kind of order, whether in respect of numbers endures, or placed in those spots, or straitnesse: next to these are the red, and dark spotted. To these may be refer'd the chequered, or dappled, the speckled, like Panthers; the pided; the fleabitten; those like magpies, full of black and white spots. Those whose right, or left feet are both white, are esteemed bad. Those that have each other

foot white, worst of all. The reason is, because the legs lay clapt together in the dames belly, whence they became so spotted. Those that are of one onely colour, *Palladius* advises to choose for stallions. The *white Claudian* are most fleetest, and are most magnified by *Plato*. Those also that are gray-eyed; for, since they all, either black, or goat-eyed, or grey-eyed, the colour of the eye answers that of the body. The *blackish* are cried up, especially, if they have a star in the forehead, and a white streak, and some white on one foot. The *cole-blacke*, as it were schorcht in the fire, (*Homer* calls them *Aithoonar*) *Oppian* commends them for hunting the wild boar. There are some brightbloody, and palme colour'd, and bay, and chestnut. *Becanus* saiths the azure, or *bleuish* are fleet. *Helychius*, and *Varinus* mention flame-colour'd. Some, (calls *Heterophthalmi*) have one eye greater, or lower then the other. *Lucanus* miscalls them, one-eyed. The *Parthians* liked the fearfull ones best, perhaps, because good to run away upon. Some are called *Æogeneis*, or eaglebreed, from a native scarlet spot on the shoulder, as *Abysrtus* thinks; the *Sarmate* hold them for good: but reject those that have an eagle marke about their lips, or taylor. Lastly, those that are called *Alphorugchoi*, are said to hold out good, and not to decay so soon as others.

CHAPTER II.

Of the Asse.

Next the Horse, I shall treat of the Asse, a beast contemptible indeed, but no lesse usefull. Certainly the report goes, that it is above beleefe, almost how gainfull they prove to their owners: and it is said for certain, that a Shee-asse there was, that brought in more then any the most fruitfull farme: for it was knowne, as we read in *Pliny*, that in *Caliberia*, Shee-asses each yeelded 400000 pieces of mony, so fruitfull they were. No wonder therefore that *Q. Axius* the Senator, gave 400 pieces for an Asse; and that *Heliogabalus* distributed Assees for rich magnificent presents, and donatives to the people of Rome. The name the Asse hath obtained among the Romans (*Assinus*) is not derived from *As* and *Sinus*, as if he were a senselesse beast, as *Bartholomæus* plays upon the word; but from *sitting*, as one should say, a Waime, or Waggon; or rather from the Hebrew word *Asson*, that signifies an Asse. The Greeks call him *Onos*, because helpfull to us in our works; unless it were better to say, from the *Palish*, wan colour, whence also it is thought that the same name (*Assinus*) is put on the cod-fish. The *Cyrenenses* call him *Briko*, from his untowardnesse; *Ariflophanes*: *Bupalos*, as a pious man should say; blockish as an ox. *Nicaner*, *Bromas*, the brayer; and from his hideous absurd voyce; *Megameas*; *Euphathius* and *Suidas*; *Kanthoon*, from his pack-ladle; *Helyx*, the

to the *Dores*, *Killars*; others, *Koobulos*, *Lepargos*, from his whitish bowells; *Cyrril*, *Mammemnon*, *Monios*; which yet the Phœnices feem onely to thofe that are feut in haft: Alfo *Keelon* he is called; and *Ogribas*, that is, wild; *Ogkiftees*, from braying. If you looke on his *Deſcription*, his eares are long and broad, proportionable to his body; he is thick lipped, *great headed*, there are black ſtreaks on his neck, and feet. In the entrance of his *ſkin*, he bears the ſhape of a croſſe, in which place alſo his burdens fall more uneaſie to him, then near his reins, becauſe he is there weakerboned. His *hair* very rough, and unfit to make cloaths; his *bowells* white; he is fairer hang'd then any other of the fourfooted beaſts; *Nicander* calls it *Koomeen*, he fors *teeth* both male, and female looke at 30 months old; the ſecond, in the ſixth month, and if they bring no yong, afore they ſhed their laſt teeth, they are undoubtedly barren. Their *ſkin* is ſo tough, and thick, that they ſcarce feel a club. The *heart*, very great, as in all timorous beaſts, or thoſe out of fear doe miſchief. The *blood* extream thick, fat, and black.

Place. As for *places*, the Nomades have them not, by reaſon of the coldneſſe of the region; therefore northward you find but few. Very many are found in Italy, France, Germany, Greece, as we ſhall ſee in their differences; their *food* is of the meanest. For even, where there are no paſtures, they will be fed with any thing, and a little ſerves their turnes for they will eat leaves, and thorns, and willow ſpruggs, or bawins, if you lay them afore them. They thrive on chaff, that you may find every where in abundance. Therefore *Tertius*, declaring a cities utter ruine, ſaid wittily, that he fears it ſhould prove Affesprovender. He delights in reed, that to other beaſts is poiſon; and in figs, the which when one had greedily eaten, and a boy deſired that wine (or grapes,) ſhould be alſo given to him. Philemon (the Poet) ſeeing the Affe eat them, died with laughing. But ſo great coſt was layd out on *Chriſtian* the Biſhop of Mentz his Affes, as might have well maintained a mighty Princes family. They ſay alſo that drinking of water, battens them, and that the more they drink, the more they thrive by their provender. They are very luſtfull, which appears by the brazen Affe, that thoſe of Ambracia dedicated at Delphos, after their conqueſt over the Moloffi, in a night-fight. But that exceſſe of theirs in venery, it is well knowne, makes them ſluggiſh and barren. Hence it is, that to the Egyptians they were ſo hateful, as *Ælian* relates. Of their engendering thus *Pliny*; their ſoonest bringing forth is after 30 month old, but a full exact birth after three years, as it is with Mares, in the ſame months, and after the ſame faſhion. The ſhee-affe brings forth in the twelfth month, for the moſt part but one at once, for ſo is her nature, yet twins ſometimes, but very rarely. Seven dayes after ſhe will couple, and then conceives; but after again ſhee will take the hee-affe. She is

not wont to doe ſo, unleſſe ſhe bring forth, afore the looſe the tooth, whereby her age is knowne; but if the bring forth afore, ſhe ſhall be fruitful as long as the lives. She uſes to breed all her life long, that is, till ſhe be 30 years old; when their time comes, for their great toying weakens them in thoſe parts. They never let the hee ſtand idle, for reſt makes him but worſe. They bring the hee and ſhee together afore the ſolſtice, that is the longeſt, or ſhortheſt day in the year, that every other year they may bring forth about the ſame time, which they do the twelfth month after conception. Thus ſay *Pliny*. They are uſe to be fore teated with breeding, therefore at fix months end they ſuffer their hee-colts to fuck no more, but ſuckle their ſhee-colts almoſt a whole year. The breeders have milk in the tenth month; *Pliny* ſaith, they are never without from the firſt. If the dames run in rank paſture, it is deadly for the colts to fuck for the two firſt dayes after ſoaling; they call the diſeaſe *Coloſtratio*, coming from the firſt cruded milke. *Anab* was the firſt that brought horſes, and Affes together, (whence *Mules* proceed.) It is worthy our nothing, as *Pliny* ſaith, that, eſpecially at the production of Mules, the hair of the eares, and brows are like the dames, and of as many colours, though all the reſt of the body be of one colour. They are all at *enmity* with the bird, call'd *Ægithus*, (that uſes to peck-affeſſes galled backs, becauſe theſe ſpoyle their neſts) as alſo the Spinn, (the Nightingale, or Thistlefinch.) And among plants, they hate hemlock moſt. They uſe to rub themſelves againſt thiſtles, and ſo wrong the *Ægithus* his neſt; which ſhee ſo dreads, that, hearing but an Affe bray, the caſts out all her eggs, and the Chickens fall all out. The Spinnus hates the Affe, becauſe he devours ſo the thistle-flowers, that the lives upon. If in *Hieturia* they eat but hemlocke, they are taken with a deep ſleep, and ſeaz'd with a ſenſeleſſeſſe, that they ſeeme ſtark dead. Scalliger teſtifies, that many with eating thereof fall a yawning, and then are giddy, and turne round, and fall. What men report of the Crow, Wolf, Rat, and Horſe, ſtands with plain reaſon.

The Affe loves the Scorpion, and Vines; whereof *Merula* ſaith, if one ſtrook by the Scorpion, ſit on an Affe upright toward the tayl, the Affe ſhall feel the anguiſh in his ſtead; and that is a ſigne thereof, that Affe dies ſitting. Or if hee, whom a Scorpion hath ſtung, whipper the Affe in the eare, ſaying, a Scorpion hath ſtung mee, the pain ſhall leave him, and paſſe into the Affe. But it is obſerved, that if an Affe crop a vine-branch off, from that time the vine ſhall take better, and prove more fruitful; and that thoſe that have ſtudiouſly endeavour'd this, have gain'd yearly an ample vendage. Men uſe to fetch the water of the river Styx, onely in an Affes hoof; and that *Bempeodocles* could allay eaſt-winds with bottles made of affes-hides; I know not whether theſe are

are to be reckoned among the examples of Sympathy. Their *life* they prolong to the thirtieth year, unleſſe they be worn out with overhard labour. The ſhee-affe is more lively then the hee.

Their *voyle* is braying, or onking, as *Scaliger* will have it, and we read of that they call *Bromomai*, and *Mycamoi* by the Greeks. They onky among the hairy beaſts are free from not only lice, but alſo looſies, and chapping of the ſkin. They are troubled with rheums, and inſatiable hunger, and that moſt, if they carry figs dried, and apples. They call it *Malida*, which ariſes in the head, and cauſeth much red and yellow ſtuff to run out of the noſtrills, which ſhould it fall down on his lungs, would kill him, as it is ſaid. *Ælian* reports that the *Mauruſian* Affes, aſſoone as they come into the highway, ridd ground with ſuch incredible ſwiftneſs, that they rather do fly, then run; but then they are ſoon tired, their feet, and ſpirits ſaying them, and when goaded on to mend their pace, ſtand ſtill, and weep bitterly. See in *Aldrovandus*, how their halting may be cured. That, as *Pliny* writes, they take heed of water, and feare to dip their feet in it; that (wonderfull to be related) though very thirſty, if the water be changed, you muſt force them to drink, and unload him alſo; that grinning, gaping, and unhandſome ſhewing their teeth, they ſeeme to laugh. That they will piſſe, when they ſee others ſtall afore them, or upon dung; that they are not much troubled with monthly terms; that, when they drinke, that thruſt not their noſe farre in, certainly becauſe of the ſhadow of their eares. Laſtly, that they, of all beaſts, except the mouſe, are moſt quick of hearing; all this belongs to their nature. All men know, that they are condemned to the priviledge of ſingular *ſupia dulner*, whence blockiſh men have obtained deſervedly the name of Affes; whereof *Aldrovandus* at large. Yet ſome examples ſhew, that they may be taught, for *Cardan*, out of *Leo Africanus*, writes, that Affes can daunce to the pipe, and with a word whiſper'd in their eare, will of their owne accord lay down on their back, and hold their eyes cloſe ſhut, and as if they had drunk poiſon, ſwell, nor can be brought for a time by threats, entreaties, nor blows to riſe up, but will ſtarr up on a ſudden, and jolly, allur'd by froaking and flattering, and by promiſe that they ſhall carry a beautifull woman; but when they ſhall heare that they are to carry old crones, or decrepud women, they ſhall hang their eares, and ſain themſelves lame; and being asked whether they love fair mayds, they ſhall beckon a yea with their head; nay, they ſhall pick out the faireſt in the company. *Gefner*, having been an eye-witneſs, reports the like of a ſhee-Affe of *Iohna à Grua* the juggler. Shee, ſaith hee, would firſt daunce three ſeverall kinds of daunces, as the muſick changed; and that with her forefeet held up, with great alacrity, and anone, as if all her jollity were turn'd into the deepeſt ſorrow, caſt herſelf all along

on the ground, and there lay ſtill, as ſtruck with an apoplexy, and could not be brought to ſtir, with ſpurning, or kicking: after being bid to greet all the beholders, ſhee would, like a man, turne her eyes and head toward them all, and ſalute them, doing obedience with her forefeet: and, which was the greateſt wonder of all, ſhee, to the amazement of the byſtanders, would caſt her body through a hoop, at her maſters beck, as cleverly as a dog ſhould leap through. Laſtly, like a dogge, ſhee would take up an handkerchief, or glove dropt on the ground, and reſtore it to the owner. They are ſo fond on their colts, that they will run through fire to come at them; and are ſo loving to their kind, that they ſwound, if they ſee them dy. It is alſo obſerved, that the ſhee-affe takes ſpeciall heed, that ſhee bring not forth afore any mans eyes, or in the light. When ſhee is overladen, ſhee ſhews it by hanging down her eares.

That Affes ſheath ſerve for food, is witneſſed by *Galen*. The ſtory alſo of *Charles V.* relates the Spanjards did ſometime eat it. Wee know alſo, that *M.D.XVI.* at the ſiege of Verona, it was counted a dainty, when they uſed lentils, and beanes but ſeldome. The Perſians alſo on their birth feaſt-day would roſt an Affe whole, and reckoned it among Princely delicacies. *Mecænas*, ſaith *Pliny*, was the firſt who appointed Affe-colts in ſeats, at that time prefer'd afore wilde Affes; after his time the taſt grew out of requeſt. That they are ill taſted, and hard of diſtention, and ſpoil the ſtomach, they that have fed on them can witneſs. The Phyſicians

have brought into uſe Affes milk, blood, ſpleen, liver, ſpleen, yard, ſtones, boſſes, ſcurf, ſtates and dung. *Galen* ſaith, their milk is thinneſt, if compared with that of the cattell that we uſe to milke: but thick, if compared with that of camels and Mares. Unleſſe we ſo diſtinguiſh he muſt be ſaid to contradic himſelf; ſince *Pliny* alſo writes, that camels-milk is thinneſt, next that of Mares, the ſhee-affe ſo thick that men uſe it in ſtead of curds. It is beſt, if ſhe be well, well fed, young, and ſhortly after her ſoaling. Phyſicians adviſe, ſome of them, that they that are in a conſumption, ſhould fuck it themſelves, that it abate not of the native warmth. *Galen* preſcribe it to yong man, who was waſted away, mixt with hony, as ſoon as he came out of a bath. The ſame drunke alone reſreth an exulcerated ſtomack; and is commended againſt a cough, leannes, and ſpitting of blood. Drinking it helps a fore-breath, as *Pliny* delivers; and taken in with hony it helps monthly terms. It is not good for a weak, or giddy, ſwimming head. It helps againſt parget, ceruſe, brimſtone, and quickſilver. Gargling it is moſt comfortable for exulcerated jaws. There are examples of ſome helped of the gout by drinking Affes-milk. And ſome eaſed of that growiſh pain, by drinking the whey thereof. It is thought to help ſomewhat to the making wo-

mens ſkin white. It is certain that *Domitius Nero* his *Poppæa* carried ſtill along with her

500 bigbellied *Asses*, and bathed her whole body in the milk, on conceit that it fained and suppled her skin.

The *blood*, some say, stanches a flux of blood out of the brain. Pliny says, that it is said to cure a quartan ague, if the patient drink three drops of the blood taken out of a vein in the *Asses*-care, in a pinte and a half of water. Hartmannus commends the same taken after the ears, as extreme good against madneffe. Linen never used afore is thereby softened, and bleached, whereof a piece is sofined in a draught of spring-water, and the water taken in against frenzy. *Alian* witnesses the same of *Asses* *sties*; and that one Bathylis of Candia was recovered of lunacy thereby, it being prescribed him. Pliny saith, it cures the Thicke, especially in Achaja: wee read the same in *Avicen*, who adds that it is given in against the falling sickneffe.

The *liver* also eaten helps against the same disease, but is prescribed to be eaten fasting. Others advise it to be drop'd into the mouth mixt with a little of the universall medicine. The *milt* is so effectually against the spleen, that the profit is felt in three dayes usage. The same beaten to powder, and out of water put on the breasts brings the milk into them, if we credit *Sextus*. The fume is good for old matricies, as Pliny holds. Their *Reins* in powder given in pure wine, help the bladder, and to hold the water. The *Asses* *genital* is conceived, says Pliny, burnt to ashes to make hayr come thick, and prevent gray hayrs, if smeare on the new shaven with oyle, and pounced to powder with lead. His right *stone* drunke in wine, or bound to the arme provokes lust. Either of them helps against witchcraft. Wrapping infants in the *skin* keeps them from frighting. A ring made of his *hoof*, if there be no black in it carried about one inclinable to founding fits, keeps him from falling. The *Asses* of the same are also good for that end, drunk many dayes together, and kneaded with oyle disperse swellings, or bunches. *Tarentus* used it for a bait to take many fishes. That they call *lichen* (whether male, or scurf, or tetter) burnt, and powdered, and laid on with old oyle, breeds hayr so, that if you annoint but a womans jaw with it, shee shall have a beard; daubed on with vineger raises from a lethargy, or dead sleep. Their *stale* smeared on with clay takes away corns, and cures hard flesh, saith *Marcellus*. *Savanarola* hath written that it is good against an ill favour of the nostrils. *Dioscorides*, that in drinke it helps the ache, and gravell in the reins. Wherefore those of old have still used it. Of their *dung*, thus Pliny; The dung of the *Ass*-colt, voided first after his foaling, is called *Polea*. The Syrians minister it in vineger, and meth against the spleen: The same helps the collicke, and bloody flux, boyld in wine it greatly relieves the pain of the skin: In three dayes it cures the kings-evil given but as big as a bean in wine. A mares foles dung hath the like efficacy. The same is used to stanch blood. *Tarentinus* much com-

mends it moynted in Coriander juice, and kneaded with barley-flower, for the taking of trachuris and perch.

I need not speake of their usefulness in carriage, in the mill, in warre, and at the plow, &c. This may be added, that pipes are made of *Asses* bones, and are shriller then others; and that the Arabs make parchment of the *Ass*-hide, and cloath of the hayr.

Some *differences*, and *kinds* they may be divided into; There are those of *Myfia*, that are crooked gutted; and *Vary* fo called, such as the Great Turke gave Ferdinand K. of Naples, of a strange hayr, a body streake, many colour, and markt with even streaks. Small, such as *Illyria*, Thrace, and Epire breed. Great ones, such as Antron a City of Theflaly yields. Swift, found by Euphrates, that out-run a Horse. Scalliger writes that in *Aegyptus* she is the holding out, and fleetnesse of their ambling *Asses*, that they can without baiting ride their 40 miles a day without taking a hayrs harme.

CHAPTER III.

Of the wilde *Ass*.

THE Greeks call him *Onagros*, as much as to say, the *Ass* of the field, or wilde *Ass*. *Nicephorus Callistus*, speaking of India, seemes to describe him, when he saith, this Region breeds wild *Asses* both very great, and of a skin of frange musfull colours, black, and white being mixt with a great variety: And certain girdles, or rings reaching down from the top of the back-bone to the sides, and belly, and there parted, and by certain turnings entwined, making an admirable folding, and variety. *Oppianus* ascribes a silver colour to him, which *Gesner* takes it for an ash-colour, and conceives that *Ezeronta* signifies the same. But that he is not all white is clear by what *Oppian* adds about a black streak running along his back, fairly distinguishing here, and there by snow-white crownlets. Their skins *Suidas* calls *Ozai*.

They live in wildernesses, especially in rocky and craggy places, in *Africk*, *Lycania*, *Narlinga*. Some deny that they passe in *Lycia*, that hill that severs *Cappadocia* from it. The *Cappadocians* hunt them most. In *Paria*, an isle of the *Aegean* sea, lives there a kind, that translates elsewhere dy. Some deny that there are any in *Scythia*. But *Strabo* saith that the inhabitants about the marshes of *Maeotis*, appoint hunting matches of them.

As for their nature, and *fashions*; *Isidore*, and *Bartholomew of England* write, that they were about the first Equinoctial once every hour night and day; and thereby men know that the nights, and dayes are of a length: which rather agrees to the *Cynocephalus*, bo-died like an Ape, and headed like a Dog; *Scalliger* saith, that if they have seen a man stand in the same steps, they presently fall a braying, holding their forefeet still, and flinging out with

with their hindfeet. He will suffer the hunter to come so near him, that he can touch him with his hand, and then he betakes him to his heels. They are very jealous, and each governs his females: They are fearful of their rivals. Whence it is, that they watch their shee-*asses*, when great with foale; that, if they can, they may by biting geld the male-colts, which the damnes fearing, doe their best to hide them in corners, and love to foale by stealth. We gather out of H. Scriptures, that they are impatient of thirst. Some, to have a breed of Mules, choose wilde-*asses* tamed. This beast is easily tamed, and made so gentle, that he shall not seek to returne to his former lovely wildnesse.

Their *flsh* is bitter, saith *Alian*: *Galen* saith, that that of the well conditioned, and young, comes near to Harts-flesh, and beef. *Scalliger* saith, that it is ranke, while warme; cold, it neither smells, nor tastes well. And *Pliny* writes, that *Maenas* made feasts of *Asses*-colts, and that then they were far preferred afore the wilde *Asses*; but after his time, their taste was not regarded.

Physitians smear their galls on Ulcers with good successe; and mingle them in plaisters against *S. Antonies* fire, if we belevee *Avicen*. Their fat with oyle of *Costus*, is commended for the windnesse of the loins, and reins. The *flsh* of their back with oyles, help akinge-joints. Their *pisse*, saith *Avicen*, breaks the stone in the bladder. Their marrow cures the Gout, and takes away the pain, annointing the place. The dung mixt with the yolke of an egge, daubed on the forehead, stanches blood. The same with an Ox-gall, if you annoint the hair, makes it curl.

There are said to be two kinds of them. In the mountain that parts the *Narlinga* from their Kingdome from the *Malabars*, many savage *Asses* have their haunt. The same breeds wild *Asses* faced like a Horse, ash-coloured, so nimble of foot, that there is no taking of them. Those also of *Africa* are so swift, that they fall short of no wild beast, except that they call the Lant.

CHAPTER IV.

Of the Mule, and the Indian Zebra.

THE name of the Mule is common to four living creatures; For the three-mule is ingendered, not only between a Mare and an *Ass*, but between a shee-*Ass*, and an Horse, as also a wilde-*Ass*, and a Mare, as *Columella* hath delivered. The *lumar*, between an *Ass*, and a Bull. Onely males come from a Horse and an *Ass*; Ancients called them *himulus*, or little Mules: on the other side, they called those Mules, that came of an *Ass* and a Mare. Yet *Varro* thinks that they are to be called, Mules, that come of a Mare, and a Mule. It may be those are the pumily, or tits, that *Martial* mentions. For

Hinnus (they are *Varro* his words) engendered of an Horse, and shee-*Ass* is fleshe in bulk then a Mule, and for the most part, ruddier, dard as a Horse, maimed, and tailed like an *Ass*. But the name of Mule, *Isidore* conceives to be drawn from the Greeks, namely from that Bakers use to drive about their flowingg mills withall, or amuller: But it is better to drive it from *Molur*, labour, or of the Hebrew *Maal*, which signifies prevaricating, deceiving, or going out of the right way: Since this is a toying creature, and bred out of the road, or ordinary course of nature: He hath obtained many names among the Greeks; *Emionus*, of half, mungril-breed, because sprung from an *Ass*, and a Mare; *Astrabe*, from his strength of body; *Agonemexithor*, from barrennesse; *Eterogonon zoon*, as bred of diverse seeds; *Tires*, *alkas*, &c. are names given to the shee as *Orestis* to the hee. *Aeidarus*, because he can labour more then any other beasts on mountainous places. Many more Greeks names he hath gotten, whereof, consult with the Lexicons.

When the Mule hath a Mare to the Dam, and an *Ass* to the Sire, he resembles partly the one, and partly the other: yet more the Sire then the Dam, and is also voyced like him. They are long dard like the *Ass*; and hath them in stead of forelocks to guard the eyes. There is a crosse on the shoulder; finally, slender footed they are, a lank of body; for the rest, like a Horse, save that the neck is none strait. They have all 36. teeth, besides others more then usual by nature: We learn from *Aristotle*, that they shed them. In the heart of some is found a bone. *Gall* they have none, as all whole hoofed.

If you would know their place; they say, that hore, and dark places spoyl them, and make them after a manner beside themselves; they love to have their standing in the open aire, covered, or onely their head, it is enough; the rest takes no harm by the aire. There are none of them in Arabia the Happy, England, Scotland, Poland, nor in the neighbouring regions. They cannot breed in Eleus, because of a certain imprecation, or curse. The East Indies also want them. In *Scythia* they cannot abide so much as the beginning of winter. A certain Isle there breeds some, but those of a loud, and shrill voyce. Themistia is full of them. The *Cappadocians* pay yearly 2000 of them to the Persians. That they abound in Persia, Mesopotamia, and Babilon appears by Alexanders taking order to lead away 3000, at the taking of Sufa, both such as would carry and draw. Their food is both fruit, and grasse; but they baten most by their drinke; nothing is better to keep them in good plight, then clavage-grasse: the more barly they eat, the more they neigh. From their first breeding of teeth they wax, and live many years. It is reported, that, when the Temple was built at Athens, there was one 80 years old.

The male, as they say, engenders at seven years

Plin. H. N. lib. 28. c. 16.

In Praxid. chim.

Lib. 28. H. N. c. 16.

Plin. L. 1. c. 19.

Plin. L. 26. c. 16. and 28. 15.

L. 28. c. 16.

Plin. H. N. L. 5. c. 44. & Solinus.

Ve.

Exerc. Zool. 5. 4.

H. Eccl. 1. 9.

Kinds. Scalliger.

Name.

R. R. L. 6. c. 36.

Plin. H. N. L. 8. c. 44. Nomus.

Thir nature, and fashions.

Lucian.

Herodotus.

Strabo.

Geog.

Strabo.

Strabo.

Strabo.

Strabo.

Strabo.

Strabo.

Strabo.

Strabo.

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Strabo.

Strabo.

Strabo.

Strabo.

14

Engender-
ring.
Arist. de
Gen.
c. ult.

Small.

Sympa-
tity.
Arista-
thy.R. R. 1.2
c.3.Plin. l.
utr. anim.
H. N. 8.
c. 44.
Arist.
H. A. 1.6.
c. 24.

Vfc.

years old; the female is barren, because, though she conceive, she can bring nought to perfection; but the Hee-mule, being of a hotter temper, than the female, sometimes generates, though he confer life to the brood; and what comes of him is but a maimed tit, as among the Swine the Metachærum, or after-birth, you shall find the same of a Mule in Juvenal. Yet good Authors, not to be concealed, as M. Varro, and afore him Dionysius, and Mago, have delivered that, in regions of Africa, the broods of these-mules are not so prodigiously strange, but are as common with them, as Mares with us. We shall unfold the reasons of their barrenness, in the books of Nature. Some relate that they excell in the sense of *smelling*, by the benefit whereof, leave them any where, they shall by their sent alone find out their way. Hence is it, that they are easily tainted with an infectious aire, and stroken with the pestilence, which also happens to dogs. Of the diseases whereto they are liable, see Aldrovandus.

There is such a *Sympathy*, or agreement in nature, between them and swimming fowles, whether Geese, or Ducks, that they are said to be healed with the very sight of them. On the contrary the Flowers, and leaves of the Lawrell rose, that are wholesome to man, are to them poyson. In Mules also there is, I know not what, deadly to Mice. For fatten but a Mules left hoof at door, and the Mice shall quit the house; they are ever tame. The shees are found livelier than the hees, and wax not so foison old. Those are cleansed by the flowing of stale; these seem sooner old by the sent of urine. They love tumbling, to refresh them, when weary. They borrow from the fire hardiness to labour, and boldness, and are from the same, swiftness. I have knowne, saith Varro, that when a Wolf hath come to a company of Mules, they have hemmed him in among them, and kicked him dead. Yet any un-usual sight terrifies them, and brings them into hazards. They kick most fiercely. There hath been one seen, that would brook no master, but one. They are extream stubborn. I saw, as I went between Naples and Rome, one, that could by no means be forced to lead the way, and being left by her fellows, lay downe, making us all laugh, and the Priest, who rode on her, fret. An example of their craft, you have in Thales his Mule, and of their memory, in *Pliny*. The monuments of Athens declare, that one Mule lived 80 years; they taking delight in him, because; when they were building a Temple in the Tower, he being excused from labour for his great age, would endeavour to help, and in courage by his company, the beasts that fell under their burdens; concerning which mule they decreed, that no corne-merchants should offer to drive him from their corne-sives. I have wrote, that they will not kicke, when they have drunk wine. How true that is, we shall shew elsewhere. They are of great efficacy against

poyson, few one poysoned in a Mules belly newly killed, hee shall escape with life; if hee remain therein, as long as there is any warmth in the beast; Hee shall be much better, if hee use many. *Maranta* is Authour, that there have been Princes, who to save a life, have used 30, 40, and 50 Mules. Some have alayed their lust by sprinkling on their body the dust wherein a Hee-Mule hath tumbled. Their heart, stones, reins, flesh, and filth of their ears, are said to cause barrenness. The bristles of the taile, bound together, are good to help conception, saith *Pliny*. *Hippocrates* prescribes, against the womb-flux, to drink their dung burnt, powder'd, and sifted in wine.

Aristotle mentions two kinds, namely the barren, (whereof afore) and the breeder, whereof he writes, that there are in *Syria*, called Mules, of a divers kind from that engendered between a Mare and an Ass, but faced alike as wild Asses, have obtained the name of tame Asses, so Mules excell in swiftness. Such Mules engender in their kind, as it is well known in them, that in the time of Pharnaces father of Pharnabazes came into Phrigia, that are there yet; three of nine are kept there to this day. They commonly engender in Cappadocia, but it is a peculiar kind.

The *Zebra* answers every way the mule, but that it is a fruitfull breeder. Of a havr full of seams and streaks, wonderfull to be seen. For even from the back-top to the belly hee hath lines, as painted, of three colours, black, white, and yellow, the lists being disposed in an even proportion, each almost three fingers broad. They run wild, but in herds, and are famous for swiftness; and, if tamed, might serve in stead of an Horse. Some take them for mules.

Whereof *Pigafeta* thus: The Zebra is bred in this tract (Congo) as also in other parts of Barbary, and Africa, which though in shape, and stature like the mule, yet is not it, (since it breeds) and differs from the mule, and all other beasts in colour. For in three colours, black, white, and fresh red streaks of three fingers breadth compass the body from the back to the belly in fashion of fenny, or half circles; the tail being of a red, and shining hee-footed, and hoof'd as the mule, otherwise of a light, and nimble foot, as the Horse, nay much faster than hee, so that it occasions the proverb in Portugal, swifter than the Zebra. Shee breeds every year, whence there is great plenty of them; but uselesse to the natives, who know not how to use them; else they might serve them as well as Horses, both in peace, and warre, nature having furnished those places with them, where there are no Horses, to supply that want. Those of Congo therefore, neither having Horse, nor knowing how to yooke oxen, nor to tame, or bridle the Zebra, nor know how to use other beasts; are faine to use men in all their works. And as they lay all their baggage on mens shoulders, so themselves are carried about by men in litters, or on chairs covered from

from the Sun, having alwayes servants, or other hirings at hand to that purpose. And if they are to dispatch long journies in a short time, they carry many such man-bearers about with them to take their turnes, as the rest are weary; by which shifting, they ride more way, then Horses themselves. So far *Pigafeta*.

CHAPTER V.

Of the Elephant.

THE Elephant hath also place among the whole-hoof'd, whole hoof, though it may seem to be shaped, as if he had toes, yet because they are not cleft: I know not well how to shut them out from among the whole-footed. He hath gotten his name, not from his vast bulke, he seeming to be a kind of mountain, as *Isidore* would have it; but rather from the Hebrew *Alaph*, to learn, he surpassing all other beasts in teachableness: or from *Eleph*, an Ox, by reason of his greatnesse, *Ba*, being a word importing increase: Or, as it were *Elibar*, from *Elas*, a marish, and *Baino*, to descend, because with his weight he makes there deep gulls; or from *Elephraio*, to hurt; or from *Elisso*, to bend in, because he hath an involved in bending his trunk; or finally, from *Alphas*, white, since ivory, triumphs in that colour. Some call him *Piriffas*, others simply the monstrous beast, (*Theria*.) The Romans, who saw Elephants first in their warre with King Pyrrhus, call them Lucanian oxen; whether from Lucanian, where they first saw them, or (a Luce) from light, because they glittered a far off by reason of the Princely golden shields, where-with the towers on their backs were adorned. The Indians call him *Barrus*, from his voyce, saith *Isidore*; others will have it a Sabine name, whence *Servius* thinks *Ebur*, Ivory hath the name.

We shall shew in the differences, their different greatnesse. *Gillius* measured one at Constantinople, that from the eye to the farther end of the back was eleven foot; from the eye to the end of his trunk, eight foot. Some of them are twelve foot high, some thirteens, some reach fifteen, and nine inches. *Alophus* Cadamustus writes, that hee saw one, that had more flesh then five of our Bulls. They are all black, except the *Æthiopian*: yet the writers of the Indian voyages report, that the King of Narlinga hath a white one.

They have a chequered skin, or rather one graven with blistered pits, and is of such a hardness, that you would take it to be of bone. Therefore the Moores make their bucklers of it; and the Peguans use it in stead of armes: yet it is harder on the back, then the belly. Their back-skin is extreme hard and stubborn, their bellies are soft. Whether he be hairy, or no, *Pliny* himself knew not; He hath no bristles to cover him, nor can he use so much as his taile

to drive away the flies from annoying him; *Pliny* speaks of the Elephants in some places; but in others, their bodies have impenetrable bristles. *Cardan* saith, their skin is naked, and gives reason why it must be so. But *Cadamustus* testifies that he himself hath plucked black-haires two palms long out of them. *Gillius* affirms the same length thereof. *Vartomau*, finally, reports, that they have a taile like the oxes, about 27 inches long, with a few hairs at the end; and in the description of Guinea we read that the women use such fly flaps to drive them from their images. Nay *Pliny*, as forgetting himself, writes, that the Indians delight strangely in Emeralds, counting them only precious stones, and had rather want gold then them, and that they make holes in them, and tie them in Elephants bristles.

They have an ugly misshapen head; and about the temples a kind of tunnell, whereout the male sends forth a fat fluff at coupling-time; the female also hath the like then open, if we beleve *Strabo*. Their ears are little for a beast of that bulke, two hand-palms breadth every way, and under them is a place, where you may strike him dead with one stroak of a chissell driven by a hammer. *Livy* thinks that *Hæserubal* first found it out. Those among the Sambia, an Ethiopian folk, have no ears. Their eyes, though great, yet seem but small for so vast a body; and those but heavy. The mouth in the breast, and with that they suck, and not with the trunk; their is also very small, and very far in, not as in other beasts, that you can hardly perceive it. They have four teeth within to chew withall, besides the tushes that hang out, the males are crooked, and turning again, the females teeth trait, and hanging downward. They have teeth so soon as they are brought forth, but those great ones, are not so plainly seen; with those they grind their food as small as meal. They are placed in their upper-jaw, and some are of an astonishing greatnesse. *Bartomannus* saw a couple in Suuatra, hanging up, that weighed 336 pound. And *Cadamustus* saw one slain, whose teeth exceeded 36 fingers breadth in greatnesse, and sticking 24 fingers breadth out. Of whose vastnesse thus *Pliny*. The greatest teeth are to be seen in temples. But in the utmost coasts of Africa, where it borders on Ethiopia, they use them in stead of posts in their houses, and for fences, and flakes, and prope in their stalls for cattell. *Gillius* reports, that they wax sometimes to ten foot length. *Venetius* the Merchant, that one was said to be sold for 36 pieces of gold, being 94 inches long, and 36 inches thick; and that it was so heavy, that he could not lift it from the ground. Besides *Sabellians* writes, that there was at Firmus two Elephants-teeth of that excessive hugeenesse, that *Aurelian*, who conquered it, caused them to be carried for a miracle to Rome, and of such an unbelievable length. Some call these Horns. How properly *Aldr.* and *Cardan* shew, and shall elsewhere declare; onely I desire to add

Plin. H. N.
1.35. c.5.Geogr. l. 1.
Opiann.
C. 12. v. 19.Solin.
c. 43.
Plin. l. 6.
c. 30.Cadamust.
Ælian.
Arist.
H. A. 1.2.
c. 6.Arist.
H. A. 1.2.
c. 5.H. N.
l. 8. c. 10.
Polyb.
Gallus.Aldr.
H. q. 1.4.
c. 9.Name.

Vincen.
Bellon.
Martini.
in Lexi.Vigant.
Vanc.Vigant.
Vanc.Vigant.
Vanc.
Bian.Arist.
Pigaf.
de Congo.

Describe.

Cassiod.
Plin.
H. H. 1.8.
c. 9.

Solinus.

H. N.
l. 11. c. 39.

the same street. They are strangely *kind* to their *keepers*, or *masters*, and also mindfull of any wrong offered them, as Seneca excellently expresses it: the wildness of Elephants, confounding to the basest offices deserves them their meat. Strabo saith indeed that some of them have carried their chariotters false in battail, clearly off, and others have saved others. And Cassiodore writes, that when they thinke that their Masters provision failes short, they will by a certain motion, by meat of diverse, who if they slight them, and regard not answering their desire, they will open a bladder wherein much filth is gathered together, and cast fo much out on the refusers houses, that you would thinke there ran a river therein, with that stink revenging the deniall. At Cochon some of them tooke a fouldier, and ducked him severall times in the water, because he refused to give their Master the way. Porus an Indian King being almost dispatched with wounds, his Elephant with his trunk plucked out the darts by degrees, and gently, and himself being also much wounded, would not fall, till he felt the King slide down from his back, having lost much blood; and then he bowed himself a little, that the King might not tumble down, but reach gently the ground. They by nature *fear* man, for if he but see the print of humane footing, though he spy not yet the man, he trembles for feare of gins, or snares, makes a stand, smels, snuffs, and looks about him, pusses, but tramples not on him, but plucks him out, and delivers him over to the next, and he to the next, like a message, and so to the very last of the herd, that goes too and fro, & order themselves as preparing for a battell. That sent of a mans steps, though barefooted they hold long. Cicero is of opinion that they are great *lovers* of mankind, and there is a kind of a conversation between them. Philo intimates the same, saying, that if be once wonted to man, he suffers any thing from him, imitates all his carriages, delights to take food from a mans hand, like dogs, and embraces him with his trunk, suffers a man to thrust his head into his mouth; & hold it there as long as he please. See Athenæus and Elian their relations of a certain Elephants *love* toward an infant. One is said to be in love with an Egyptian Herbwoman; it seemes his choyse was not common, for thee was also very acceptable to Aristophanes the famous Grammarian. Many arguments there are of their *teachableness*, which is singular. They will cast weapons into the aire, and catch them again, the wind not carrying them away; they among themselves can set forth a sware fight; and dance the armour-dance sportively: And, which is the greatest wonder, goe on thwart ropes, but better backward, as stooping forward. You find the like, as in Pliny, so in Seneca and Suetonius, to say nothing of Xiphilius. At Rome one was taught to tread the maze, without admonition, by night, and was found one night practising by himself by moonshine without bidding. That that Eman

the Portugal King presented Pope Leo the tenth with, would with all reverence salute him, looking out of a window, thrice with bended knees, and a lowly posture, and courtesie, as Oforius relates. Auger. Busbequius also telles, that he saw a young one dance, and foot it to musike, and toss a ball with his trunk, as with hands. Those of Zeilan understand languages; one there learnt to write in Greeke these words: I may self have written this, and dedicate these Celticke spoils. They will feast together like men, and not one of them observed to be greedy after the greater peeces: In drinking, reaching the cup to each other, drinking with their trunks very moderately; then standing round, lightly, and merrily dashing each other. Arianus boasts that he saw them, as an Ape, imitate, and saim the masters office, and as it were sing and dance, some leading the way. Among the rest this shews their wit, that being to passe deep ditches, and hard to be waded through, the greatest standing in the miditt, will like a bridge, convey the rest over; others will carry pieces of planks into the ditch, to save him. Besides they know their usuall allowance of food; and can perceive it, if you mingle meal with it, though never so cunningly: And, which is miraculous, one of them would go draw water to try, if the kettle had holes in it, or no. They will worship the Sun, and the new Moone; set a wandering man in his right way again; watch adulterers, and murderers, and reveale them: But that they understand, speake and write the native tongue of a land, I count it fabulous.

Of their *use* in warre, shews, triumphs, and otherwise, shall be spoken elsewhere. Some use of them hath been in *food*, whence is the name of Elephant-eaters, dwelling about Draba in the Azachean mountains, and over against Meroc. Authors call them Adjabars, or Magabars. Pliny also saith that the Troglodites hunt, and live most upon them. Their flesh is heavy, cold, and odious. Elian saith, there is nothing eatable in them, besides the trunk, the lip, and the marrow of their teeth. The Ethiopians desire their hind-parts. But their reins are said to be delicats for Kings. As for *medicine*, their fat is fabulously said to make him who is nointed therewith, hurt-free, though naked, under the wildest and savagest beasts. The touch of the trunk helps the head-ake, especially with neezing. His right side bound to red Lemnian-earth makes luttfull. The liver is good against the falling sicknesse. Smearing with his dung drives away lice.

The *Ivory*, that is that part especially about the mouth, or teeth, is of a singular nature and use. It may endure moysture, drowth not, and is subject to rot. It may be softened, and is by a kind of drink called Zythus, or Beer. When softened, it may be turned and take any shape. Thereof have been made Tables, Beds, Knife-hests, Swords, Sheaths, Quivers, Scepters, Chariots, Gates, and what not: Whereof search *Aldrovandus*. It

CHAPTER VI.

Of the Unicorn, and of the Horned-Asse

The name of *Monoceros*, that among the Latines sounds so much, as a one-horned beast, agrees to many creatures; but in a strict sense, is retained to one alone: namely that, who from having but one horn, bears the name of Unicorn. In the Brachmans dialect, called *Kartazomon*, whether there is, or hath been such a beast in nature: I shall elsewhere examine, after *Bacius*, and *Bartholinus*, the great son of so great a father. For present we shall treat hereof briefly, as resting on the fidelity of Relators.

As for the *description* of the Unicorn, he is said to resemble in his whole body the Horse: He is tailed like a Boor, grins and snarls like a Lyon, headed like an Hart, footed like an Elephant, furnished with one only horn, and that a black one, two cubits long, standing in the miditt of his fore-head. *Isidore* makes him all one with the Rhinoceros, and saith that his horn is so sharp and strong, that what ever he strikes at, he shatters, or pierces it through. There was one seen in the service of the great Cham of Tartary, in the Kingdom of Lambris. They are lesse then Elephants, holding their head downwards, like a Swine, of a prickling tongue, wherewith they get what they meet with; black eyed, and very like the Rhinoceros. *Lemis* of Barthelema of Bononia, writes thus of the Unicorn seen by him: There are Dens on the one side of the Temple at Mecca, wherein are kept two Unicorns, that are shewen, as the manners, for a rarity.

Concerning the *shape*: The greater resembled a Horse-colt of thirty months old; his horn, that he bears on his fore-head, is about three ells in length; the other was a year old, his horn grown to four hand breadth.

The *colour* of the beast, somewhat darker then that of a Sumpter, or Pack-horse, headed like a Hart, short-necked, and thin-haired thereabout, short-mained, and that hanging only on one side: Small, and slender-legged, like a Hinde: The feet a little cloven asfore, Goat hoofed, the feet hairy on the right side. He seems fierce, and of a nature affecting love-liness. I add not what *Garziar* hath out of *Horatius*: They are said to be found in the Arabian Desert, and to have been seen there by Merchants; as also between the Cape of Good-Hope, and that they call the *Currentes*. Some are in the Kingdom Bafma, and Lambris; some in the utmost parts of Asia, in the Province Macinus, between the mountains of India, and Cathay, where the Serici inhabit. Some in the new world. The Horn is shewen in many places; the most famous are, *S. Denys* in France, Venetia, Spain, Utrecht, Helvetia, Denmark, Hampton-Court in England, Windsor.

is polished like wood, especially with rough skin of a Skate, or Sole. The brightnesse of it is dimmed by womens termes. It is of a blinding force, though it have no taste. Those who have tried it, delivers, that it furthers conception, and helps a moyst stomach. The clouds in a face are taken away by the shavings thereof, smeared on with hony. The powder of it cures fellons, mixt with Harts-horns, it is good against worms. If burned to ashes, it is called *Spodium*: But men are cozened with other beasts horns for this. Harts-horne is more used then ivory.

Their *differencie* and *kinds*, are especially considered from their places by Ancients, and later Writers. Since some of them are fen, some mountain, some field, some wood, or wild Elephants, some Lybian, and Indian. Solinus mentions Pravian, and Taxilian ones.

Those that haunt *marshy-fens*, their teeth are pale, thin, rough, and have in many places holes, in some knobs like hail-stones, nor cannot be well wrought on by Art. Those are maddish, and light.

The *mountainers* are perverse, and crafty, and never trust man, unless necessitie drives them to it. Their teeth are lesfer, white enough, and not very rough.

Those that live in *fields*, are accounted gentle, tame, and love to imitate. Their teeth are largest, whitest, and easiest to be cut, and may be brought to what you please.

Those of the *woods*, in the Kingdom of Senega they are to be found, especially by the River Gambia; there they are by herds, as boors among us.

The *Lybian*, or Moorish, are lesse then the *Indian*, and can endure neither the voice, nor sent of these; nay they dare not touch as look on them.

The *Indian* ones are greatest of all, yet not all of a bignesse. *Solinus* therefore divides them into two kinds, the nobler are known by their vastnesse, the lesfer are called *bastards*.

The *Parly* are the greatest, such as Madagascarc produces. Those men call *Taxilar*, that are in greatnesse next to the former. These you find in Sumatra, very towardly, and excellent those on the Continent in good conditions, and ingenuity. Therefore they have been transported in great ships to the fast land, (from that Island Sumatra) and sold to the Calingian King.

Our *Autor* promise a *discourse* of the use of the Elephants in War, and otherwise; whereof are many noble relations extant. As afore he omitted the *diseases* of the Horse; that are so many, that it is grown to an English proverb, He hath as many diseases as a Horse. He is troubled with Stagger, Bots, Glanders, Vives, Farvies, &c. But I must hold me to translating.

Hist. Quad. Plin.

Differencie.

Places.

Plutarch.

Plutarch.

Solinus.

Solinus.

Elian.

The Taxilian.

Plin. H. N. l. 8. Rel. H. A. l. 8. c. 32.

Plutarch.

Elian.

Vie.

H. N. l. 8. Plin.

Elian.

Ivory.

Plin.

Seneca.

Geogr. l. 5.

Plutarch. de Sol. et. Axiu.

Plin. H. N. l. 8. c. 15.

Plutarch. de Philo. et. Apollon.

Plin.

Seneca. Epist. l. 86. Sueton.

Aldrov. H. Quad. l. 1. c. 16.

Strabo.

Plin.

Solinus.

M. Paul. Venet. l. 3. c. 15.

Vartoni.

l. 1. c. 18.

Bartholi. de Unicorn.

Cat. H. Arcan. l. 1.

Paul. Venet. de.

Syle.

Cadam.

Windfor, and the Gedanfian of Empiricus. That at S. *Denis* is of greateft note, being rugged, not polished, blackifh, and neareft thofe Ancients defcribe. Writers differ about the Unicorns horns lenth, *Renodus* makes him as long as a mans height, he takes it on truft, as we do. *Baccius*, and *Marinus* bring it to fix cubits: *Golnitzius* his meafure is fix foot and an half: *Bellonius* makes it up full feven foot. Nor do they agree about the weight. *Cardan* faith, one hath been feen to weigh feventeen pound, and three quarters. *Golnitzius* rifes it to five and twenty. I with *Bellonius* fhould judge the horn to weigh eighteen pound, having poyfed it in my hand. *Baccius* thinks the *Venetian* are right. *Marinus*, that they are longer then old ones, nor fo writhed as *Ælians*, and fo thin, that they cannot be drunk out of. Coloured like a fmoother Harts-horn, and pale, not black. They are reported at the fiefge of Byfantium, to be conveyed to the Venetian Common-wealth, with twelve breaft-plates of Imperial Cavaliers. The *Spanifh* one hath nothing fingular, a piece whereof *Phil. IV.* prefented to Cardinal *Francis Barbarine*, an eminent man, and moft courteous to ftrange Gentery.

That at *Utrecht* is as long as that at Paris, and reasonable great; much writhed at top, and then growing ftraiter toward the bottome. The outfide is of a fand-colour, the infide is whither. It is held in great account, and is fhown for a right one, fo that *Colonia Agrippina*, hath bid a great fumme of gold for it. That of the *Helvetians*, was found in the year M. D. X X. at the mouth of the River Arula, near Brugia; white it is within, yellowifh without, without writhings, two cubits long, but as fweet as mufk, efpecially if it be near the fire. The *Danifh*, one is kept in Fredericks-Burgs Caftle, above feven Roman-foot long, if we except that part within the hollow, which Bartholine conceives to be above a foot, it is feven fingers about, writhed all along, and fharp-pointed at top; the colour mixt of white, and afh-colour, and in fome of the fpaces channelled, and chamfered with black, and dufkifh ftreaks. That of the *Venetian Merchants*, was brought out of Germany, promifing by the bright, and divers colour'd fhape, that it is a right one; and the rather, becaufe there fall pieces from it, if you fhave it, not like teeth, and fhavings, that can be crumbled; but there come thence fhavings that are clammy, and yeelding, as any other cut hornes. I can fay little of the *Gedanfian* one. Empiricus returning from Conftantinople, not long ago, magnified it highly. More about this beaft *Ælian* tells us, faying, that among all beafts he hath the muft abfurd vile voyce; that if other beafts come to him, he is gentle, but ever fighting with thofe of his owne kind; the males do not onely quarrell, but they alfo with the females, fo that they kill one other. His whole body is very ftrong, but his horn invincible. He feeks deferts, and goes ever alone wandring. At coupling-time

the male is tamer, and feeds quietly with the female; when that time is over, and the female begins to fwell, the male returns to his former fierceneffe, and betakes him to his wandring lovelineffe. Men fay that there were fome of their young ones brought to the Prafian King, and that on feaft, and triumph-dayes, they were put together to fight, to fhew their ftrength: for no man ever remembers that one grown up, hath been taken. So far *Ælian*. Some add, that this beaft loves young Virgins fo, that if one fpreads but her lap, as he comes, he will lay his head there, and fall in a flumber, and is fo taken. For their ufe, all know how they are commended for the foverain vertue of their horn againft venom, for where poyfon is, it fweats, and drops ftand on it; and fo, as fome think, the right horn is knowne. Aloyfius Mundella, commends it againft the bite of a mad dog, and other mæchievous beafts, as alfo of worms. The ancient Indian Kings, who firft arrived at the knowledge of this horn, made cups of it for themfelves, that drinking out of them, they might fence themfelves againft poyfon, drunkenneffe, cramp, falling fickneffe, and other malignant difeafes. A Jew of Venice, made a circle on a table with that horn, and caft then a Scorpion, and a Spider within it, who had not the power to paffe that circle: after that they being pluckt by it a hand high, whether by the fhadow of it, or the vertue flowing from it, they were both kill'd, within the fpace of an hour. No wonder then that it is fo valued, that German Merchants ask'd for one of them 90000 crowns; and the Pope, fetting up a kind of an Apothecaries fhop in the Vatican, gave 12000 pieces of gold to the Epidaurian Merchants, for a piece of an Unicorns horn; of the which Aulftin Ricchus the Popes then chief Phyfician, ufed to put now a fcruple, now 10 grains in wine, or cordiall water, and adminiftered it with great fuccesse. And thus fhall ferve now to have fpoken of the Unicorn, we fhall fay more elfewhere. Concerning *horn'd Affes*, I find them cried up in three places, namely in India, Scythia, and Africa. Herodotus mentions the African. *Ælian* faith that they hold the water of the River Styx, and were fent in yron veffels by Alexander to Delphos, to be there dedicated to Pythia. Of the Indian ones, the fame *Ælian* thus: I have been informed, that there are wild Affes, no leffe then Horses bred among the Indians, white bodied, onely purple-headed, and blew-eyed, and that they bear a horn in the forehead, a cubite and half long; the upper-part whereof is light red, the lower white, and the middle coalblack; and that, not all, but the principall Indians have hang'd them as bracelets on their arms, and fet them off with gold, and have ufe to drink out of the fame. They report, that, who fo ufes to drink out of this horn, fhall be free from incurable difeafes, nor fhall be ever troubled with convulfion fits, nor ever toucht with the falling-fickneffe, nor tainted with any poyfon;

Cetius.

nay, that if he hath drunk any venom, he fhall caft it up again, and recover his health. And when other Affes, all the world over, whether tame, or wild, and all other wholehoof beafts have, as it is faid, nor ankles, nor gall in their liver: Thefe Indian Affes onely have ankles, and thefe black, and that within, if you break them, neither want they a gall; and that in fwifneffe, they exceed not onely by much other Affes, but alfo by far both Elephants and Horses. And when they come firft on the way, their pace is but flow at beginning, but then they mend it by degrees, and at length none can overtake them. After the females have brought forth, the fires very carefully looke to the colts, and their haunt is in the moft defert parts of India: when the Indians hunt them, they hold the colts feeding behind them, and fight for them: they dare meet the horfemen face to face, and make at them with their hornes. So ftrong they are, there is no re-

fitting of them, they make all yeeld, or what will not. They break, or fo fhatter, that it become ufeleffe, and is quite poyld. If they meet with hories they rend, and tear their fides in pieces, that their very guts fall out, fo that horfemen are afraid to come near them, knowing that the approach is the utter lamentable deftruction, both man and horfe, they lay finely about them with their heels. What ever they bite, they make an utter riddance of it. If they be once grown up, they are not to be taken; they are kill'd with darts and arrows. Their flefh is fo bitter, it is not to be eaten. Philoftratus writes almoft the fame. The figure

Vit. Apollon. 1. 9.

C 3

THE



Bartholin.
de Unicorn.
c. 27.

H. A.
l. 16. c. 20.

Leont.
l. 1. c. 1.
P. 11.

Baccius.

H. A.
l. 16. c. 10.

l. 4. c. 12.

nay,

THE NATURAL HISTORY OF THE FOURFOOTED BEASTS. THE SECOND BOOKE.

Of the Clovenfooted, Fourfooted Beasts.

THE FIRST TITLE.

Of the Clovenfooted that live on the Earth.

CHAPTER I.

Of the Horned Beasts in generall that chew the Cud.

Alldrov.
de Butil.
l. i. c. i.



Thus farre have we profecuted the History of the whole-hoof'd the Cloven-footed follow: In Greek *Dichele*, and *Dichide*; which in H. Scripture are said to divide the hoof, because they have diverse clefts, though properly they cannot be said to have toes. I find two kinds of them; to wit, those that live on the earth, and those that live in the water. Of the former, some chew the cud, and some not. Of the former kind, some are horned, and some not. We shall consider them in generall, and in particular. We call those Ruminators, or chewers of the cud, that, having swallowed their meat, bring it up again into the mouth, and chew it again.

Aprisyl.
quintil.
Plin.

In Latine, *Ruminare*, *Rumigare*, *Remandere*, *Revolvere*; in Greek, *Merizazein*, *Merikan*, from *Merkein*, to roul again. Some of the Latines have fetched the word, *Ruminating*, from *Rumen*, the place in the belly whether the food descends, and whence it is again sent upward into the mouth. But Servius, from Ruma, the upper part of the neck; whether such beasts recall their eaten meat. But Mercurialis derives it from *Erumne*, that are these of the throat-pipe. How necessary this chewing the cud is for these beasts, we may gather from this, because they are fed with grosser food, as also from this, because they want upper-teeth, and the lower are not sharp. Whence it is, that nature recompences the want of teeth with the

multitude, as it were, of bellies; for they have no lesse then four; namely the belly, the call, the tripe, and the paunch. The throat beginning from the mouth reaches down to the lungs, and midriffe: thence, to the greater belly, that on the inside is sharp, and rugged, and hath a cell near the knitting of the gullet, called the net, or call; for it is outwardly like a belly, and within netted, like womens head cals, and is much greater then the belly; next is the tripe, rugged, checkered, crusty, and as great as the call; next is the paunch, greater and longer then the tripe, and checkered, and crusted with many light, and great crusts, vast, and mishapen, and then follow the bowels. In the first hollow place of the paunch the meat is to be feen undigested, even in bits, and pieces scarce torned; in the second, more change, and yet more in the third; and in the last at length perfectly concocted, where it is turned into a white cream.

Nether yet do those only chew the cud, that want their upper-teeth; for among the fishes the Scarus doth the same, having blunt teeth; and among the beasts, the common, and pontick Moule, the Hare, the Cony, as we have it in Leviticus. If you ask the manner and fashion of chewing the cud, Aristotle answers, that the meat being chewed again is sent out of one belly into another, till at last it slides into the bowels. Galen saith, that it is first brought up out of the stomach into the mouth; thence it passes into the call, thence into the tripe, thence into the guts. After sucking, they begin to chew the cud, in seven months, understand it of the tame. The herders, in lesse time, because they feed abroad; yet in winter, more then at other times of the year; and they seem to delight more in this chewing the cud, then in eating. That they then require rest appears by this, that they do that work lying in their stables. Aristotle saith, that their milk alone cruddles, and that they have curdled milke in their tripe, and that they abound in milke. The causes hereof we shall elsewhere unfold.

Horns are given to these chewers (the Camel

Arif.
H. A.
l. 2. c. ult.

Arif.
H. A.
l. 9. c. ult.

Plin.
H. N.
l. 8. c. 73.
Arif.
H. A.
l. 3. c. 21.

OF THE FOURFOOTED BEASTS.

23

Camel excepted) for defence, and offence. The nourishment that should go to the making of upper-teeth, which they want, turns into Horses, and those are very manifold, and different; neither hath nature in any thing more wantonized then in these weapons of beasts; Shee hath spread them into branches, as those of Deer; to others shee hath given plain ones, as to the Harts, called spitters, or pipers, from the shape; others hath shee shaped like hands, and those as fingered, called broadhorned. Shee hath given to wild-goats, or Roes branched ones, but small, as such which are never cast: to Rams crumpled horns, like clubs, troublesome to Bulls. In this kind shee gratifies females also in many, onely male: to Roe-bucks-horns hooked backward, to Bucks, contrary. To the Strepicerous, (a beast half wild, half tame, that Africa calls the *Bold*) horns standing bolt upright, writhed, and sharp at top. To the Phrygian herds, moveable horns like ears. To those of the Trogloditæ, horns pointing downwards, so that they are faine to feed with their necks on one side. Others have but one horn, and that in the middle of their head, or in their nose. Again, some of them are strong to pulh withall, some to strike, some crooked, some to toss many wayes; upright ones, turned, beamy; all sharppointed. Thus far Pliny; who hath left out their severall colours, which are very different. Some simply, white, blackish, ash-coloured, yellowish; others party-coloured, as shall be shewen in the severall kinds.

These horned beasts also have some peculiar parts, as hucklebones, and fewer, and some parts common with others, but otherwise placed, as the belly, milk, udders. The milk is most round: The bowels large; the udders between the legs in couples. The belly hath hollows while they go with yong. In the hucklebone they are furnished with many things, and the same in their hinder-feet. But more of these in the severall kinds.

CHAPTER II.

Of the Horned Beasts, in particular that chew the cud.

ARTICLE I.

Of the tame Beeve, or Neat, or Ox.

Alldrov.
H. Quad.
l. 2. c. i.

And thus much of the fourfooted, clovenhoof'd, cud-chewing, horned beasts in generall.

If you consider the kinds, there are among them, the Ox, both tame, and wild; the sheep; the Shee, and Hee-Goat, the Hart, the Bulse, Elk, Rhinoceros, (or Nosehorned) the Beave, and that with just reason, with the Beave, being a beast, that challenges to it self almost all thing, whereof we stand in need, for food, or otherwise, certain it is that we owe all pulse, and grain to the Neat, and plow. Nay the use of vineyards would be lost, if they kept not our

carts a going. What need I speake of severall trades, that must be all at a stand, and heavy moveables, ly still, and uselesse for want of carriage; other creatures, and birds themselves fed in pennes, and coops, live on their labour: for whence should the masters be provided of barley for their horses, meat for their dogs, and swine without the toile of the Ox: And, to make short, wat ever eats, ows the food to the meat. Some make use of mules, some of camels, some few of Elephants, but to what purpose are there without those. No wonder then, that of old the Germans used to send to those that were to marrie, for a dowry Oxen yoked, to signifie by these beginnings of the marriage-state, that the wife came to be a yoke-fellow in all labours and dangers. The Athenians would sacrifice not one for a long time, while they had use of a plow, or a wagon. Pythagoras advised, that no such labouring cattle should be killed. The Phrygians punish the killing of a labouring Ox, with death. The Emperour Valens made a Law, that in all the East, they should eat no Veal: And Constantine forbid taking plowing Oxen in pledge for debt: Nay, such were given as rewards for vertue and deserts: *Decius Mus*, *Tribune* of the souldery, having saved the Roman Army, beset by the *Sabines*, by compassing a mountain, was rewarded with a Crown of Gold, and an hundred Oxen; and *Lalius* with thirty, after the City was taken. To say nothing of an hundred and thirty Oxen, sent yearly under the name of tribute by the Boheimians, to Charles the Great. That the stealing of Beeves hath occasioned a War; and that the Low-Dutch of the Cheefe and Butter they make and send abroad, make yearly two hundred Sesterfits, that amount to ten hundred thousand Carolines, besides what they easily spend for their own use, as *Adrian Junius* relates.

The Beeve obtains diverse names according to their different ages, and sexes; the chief are the Ox, Bull, Cowe, Heifer, or Stier, and Calf.

The Ox hath his name, *Bos*, properly imposed from his gelding, yet it includes also the Bull, and Cow. As also among the Greeks, *Bos* is a general, comprehensive name, and imports sometimes the Calf also.

The Bull is the beeve afore castration, the captain and husband of the Cowes; Yet *Oppian* in this name, as the more worthy comprehends, all neat. He is called (as the Etimologists say) *Taurus*, or *Tanyuros*, from his long tale, or *Garos*, i. e. proud; or from the Syriacke, *Tor*, and *Taur*.

The Cow is the Bulls female, and in Greek Cow distinguishing from the male, only by the article *O*. *Florentinus* renders it *Bailelean*, or *Dalmal*, which *Pheocian* ascribes to every young beast, some to the Heifer.

Authors speak not distinctly enough of the Heifer, and Calf, nor is *Varro* constant to himself: And the Poets call Heifers, Oxen, and Cowes, and Calves, whose horns sprout

Tacit. de mori. German.

Ellian. H. A. l. 12. c. 34.

Dabrov. in Hist. Bohem.

Paulin. in Messen.

Names.

Bul.

Scalig. r.

Haifer.

not

not yet out: When *Idorevet* calls *juvenens*, the Stier that begins to be able, *juvare*, to help man in tillage: We shall take it for a Beeve, that is no longer a Calf. *Iunix*, seems to be the fame with *juvenia*, the Heifers, or the Neat not yet of age.

The Calf is the name of the first age of the Beeve, called *Vitulus*, either from the youngnesse, or the wantonnesse, or the life of it. It bears many names among the Greeks, at least fourteen, as *Petalus*, *Mochus*, *Ros*, &c. though some of them agree to the Bulls, or rather the Ox; *Petalus*, from their slender, or plain, broad horns. *Mochus*, is common to either sex; or so called from *Mos*, the cry; or *Othmadai*, smelling after the dam, or crying, or longing after her. The Græcians at this day call it *Moukori*. *Partis* is one, very young. *Poris*, Hee, and Shee, from *Poreia*, coming forward. *Enis*, is one of a year old. *Preyi*, is rather a Bull, saith *Varinus*. *Klorios*, an Ox, or Lamb with a cross-horn. *Ros*, is a Scythian Bull, as *Zezen* relates. *Knodala*, are Oxen. *Pellis*, is an Ox with a black horn.

In describing the Ox, I shall only note the most remarkable things, it being a beast so well known. Of the differences of their horns hereafter.

It is an hairy beast, that sheds it yearly, which comes thinner, or thicker then the first hair; it is thicker on the back and neck, called *Mollossa*, because thereof hated men to make glew *Kolla*, or *Kollaboi*, pegs for Lute-strings are thence fitted. That double neck-hair is called *Mukes*. The lips are thick, and sticking out; the upper-jaw thick and blunt, so that he cannot pluck short grass. On the fore-head is the shape of a V. The gelded have a broader then Bulls. The bones are hardest between the horns; very stubborn, and not easily broken. The tongue, when plucked out, will pant a whole day. The skins that hang down the throat, are called *palegar*, the dew-lap. See the Greek names in *Varinus*. The teeth are continued, and twice changed. Those of two years old, change teeth, saith *Pliny*. They want the upper-row, they chew therefore with the four fore-teeth as hath been said. Their peezeel is very stiff. They have two udders between their legges, *Pliny* saith four, calling, it seems the teats, which are four udders. Their *ars* gapes, saith *Horace*. Their tails are long, the hair short. The flesh dry and duskiish. The sinews hard and stubborn, though not so long as the Bulls. The blood full of strings, therefore hastily congeals and hardens. The ham-joint not so fast as that of other beasts, therefore he drags his feet more, especially when he is lean and old. It is said they have a stone in the head, which they spit out when they look to be slaughtered. *Aulfin* reports they have one also in the liver, and reins. *Pliny* saith, there is a bone in his heart. The milk is very long, and blacker then the Swines, especially when he grows old. The

reins resemble mans, each as it were made up of many. The ancles greater then the Camels. In the Heifers second ventricle is found a soft, rough sand-stone, round as a ball, very light. *Pliny*. Aldrovand had two of them in his study, one reddish, the other black; for that was taken out of a red, this out of a black Ox, since it is sprung from haire that they lick in, in chewing the cud, as it sometimes happens, they with licking themselves swallow something, that gathers into an ovall chapt, being mixt with Hegme, wee need not discoure much of the plate, where they are found. For their meat, they devour all that the earth yeelds; especially grasse, citifus, pease, knot-grasse, fedge, willow, oke-leaves, olive-bows, reed, black-elder, viues, barley, hirse, wheat, acornes, date-kernels, wild olive, misletoe, these the most delight in. All know, grasse to be their feed in Summer, and hay in Winter. In the province of Narbon in Fount-Orges, grows an herb so gratefull to Oxen, that they will plunge themselves over head, and cares to seek it. They will do the like in the River Loir, about Veuin, and in the Sebustian Fish-ponds: And in the ditches, pools, and black waters thereabout, grows a grasse, with long, reddish leaves, floating on the water, after which they are so greedy, that they will wade belly-deep, and duck in the whole head to feed thereon, which fattens them strangely; and the Cows that fed there, yeeld much more milk, then neerhand. Citifus breeds much, and sweet milk; but while it flourishes, it is not so good, but dries up milk. Pease are commended, but not sowed in March, because it makes them wild-headed. *Pliny* says, that not only that, that is sowed in March is hurtfull to oxen; but also that that is sowed in May is hurtfull to Oxen, but also that that is sowed in Autumne, makes them sleepey, sleepey, and it is corrected. Therefore Democritus prescribes such to be given them monthly in their drinke, to strengthen them; five bulshells serves a yoke of oxen. Clave grasse, or three leaved fattens a carion lean ox, and cures a sick one. Therefore wild Trifoly is diligently sowed in many parts of Spain, especially in Valencia: Yet it must be given sparingly, else it does milke, and turns all the meat into blood, fat and flesh. Lotus gives best nourishment, and sweetest, and being sowed once in fallow ground, flourishes many yeares after. Elm-leaves, especially those of Attinia, the Romans held much of. If you give it them dayly, and then another sort of leaves, they will be weary of them. Virgil mentions *millorus* nor hath Lucetius forgot them. Fig leaves, if they may be had, are very good for them; yet oke-leaves, and wild olive that is not thorny, are thought better. Black elder leaves bring a flush of milke. Barly chaffe, and that of other grain. Hirse is sowed in Italy for them, saith *Porta*, fishes are given them, in stead of pease, ground in a hand-mill, and weakned a little in water, in Spaine Bætica. A bulshell of pulse serves to put an Ox into good case; weakned three dayes in river,

or sea-water, it grows sweet; and then dried again is laid up for this use. *Acornes* are advised to be gathered after feed time, and cast into water, and a half bulshell, to be given in spring to each Ox: It is meet about the fall of the leafe to give each yoke of oxen 24 bulshells. The greater make them unhealthfull; and when ever you give it, if they have it not 30 dayes together, they get the spring scab.

The Babylonians give their Oxen date-kernels soaked in water, and to their sheep. They are fattened by misletoe. They feed also on fish among the Pæonæ, who dwell by the Prastian marshes. Neither do they abstain from Hemlock, whether green, or dry: Nor doth eating of frogs do them any harme. Briefly, they delight to drinke clear water, nor doth muddy hurt them. About their manner of feeding fee Aldrovand, and writers of husbandry. For their age, the Cow lives 15 yeares at most, the male 20; they are at their best at five. Their age is known by changing their teeth; the foreteeth they cast within a year, and eight, or ten months; then after six months by degrees they loose the next, till within three yeares they have changed them all, when they are best disposed, and so hold out to fifteene. At best, their teeth stand fair, long, and even; but growing old, they diminish, wax black, and rot. The Helvetians judge of their Cows age by certain circles almost at top of their horns; they are three at five yeares old, after more. Some thinke they get a circle with every calving. About their *gendering*, *luff*, *coupling*, and *calving*, I meet with these observations. The Bull feeds with the Cow only in engendering time; they couple with the elder twice a day, with the younger oftner, and that with one, and the same, and quietly. A geld one hath engendered, saith *Aristotle*. One Bull may serve 15 Cows. Varro allows many more. Hee abstaines from the cows that are with calfat first, and as it were voluntarily divorces himself, as it is to be seen in Epire especially, where for most part hee is not to be seen for three months, but feeds by himself. The Cows salacity is famous. See *Aristotle* about the excesses and signes of their lust; as also *Ælian*. H.A. 1.10.c.27. About what heats then see *Columnella*, R. 1.6. (thither I refer the reader, for I list not to translate such stuffe.) The Cows are known to be with calf, when their termes cease, within 2, 3, 4 half a months space. They goe 10 months, and in the tenth they calve: they bring forth nothing alive sooner, saith *Pliny*: Some say they calve when the tenth month is compleat. How the calve lies in the belly is exprest by an image, and the skin wherein it is enwrapped, is also shewen hereafter. Though the Cow bring but one at once, seldom twins, yet in Ptolomy the younger his time, a certain Cow calved fix at once; and in Hispaniola this cattle is strangely fruitful; for the most part they bring two at once; in the eleventh month they go to Bull, and though they carry a couple, yet they say, they ly both on the right side. They guesse by

the Cows frisking after coupling, whether three shall have a Bull, or Cow-calf; if on the right side a Bull-calf; if on the left, a Cow-calf. They love bees, but hate hornets, gad-flies, flees of all sorts, tikes, bears, swine, crows, and some kind of plants, and some sorts of colours.

Pliny writes, that it is best to smear behinds with cow-dung, this kills the Vermen that breeds of their bodies, and Spiders, Butterflies, and raises the Bees themselves. They are repaired by ox-paunch, frellin, and covered with their dung. Virgil saids the like of a young Heifers carcase, as also of Horses. Neat being stung by an hornet, as in great anguish, fall a running. Flies vex them so, that in Leucadia it was a custome to sacrifice an ox to the flies, which being swelled with their blood, are thought to vanish away; bitten by the like, they pine away, and are disabled for labour. Bears hanging with all four on bulls horns, and necks, tire them out with their weight. Swine-dung is harmful to them. Crows pick at their eggs. Some say, that if a bulls tong be smeared with tallow (whether swines, or other I know not) they will sooner dy, then eat, unless waht with salt, and vinegar. For plants, if a bulls nostrils be smeared with oyl of roses, hee becomes giddy: Lady-glove put into their nostrils, makes them maddish. Black hellebore kills them. The juice of the Chamæleon kills young Heyfers with the squincy. The wild fig makes them tender flesh. Ash-leaves are deadly to Neat, that other cattell may safely chew; it is true of the gew-tree. There is a place, they say, a Thracian Province, near the Scythians, and Medes, almost 20 furlongs long, that brings forth barley, that men eat, but horses, and oxen will not tast of, nor other beasts. Tragus, amongst the hurtfull fruits, describes an herb, leaved like pulse at first, sharp, and long eared, the ears cleaving like burrs, commonly found in fields sowed with pulse, and barley, very hurtfull to oxen, and thund by them. Of the grasse that is good for them, the Alpine violet, and great burse, called by the Germans *Blakken*, read Gesner, oxen eating bedewd, swell till they burst sometimes, unless they be driven up and down, till they be warm, and void it. Seneca, writing of Anger, saith, that oxen are much enraged by red, or any colour like it. But it is strange, that oxen that have been made to draw any man to execution, will not plow after, or if they be forced to it, the ground will not thrive. The Geroponici advise to take heed in feed-time, that the feed fall not on ox-horns; such they hold will never come to good, they call it *Kerabolon*, horn-fallen. *Pliny* saith, that, if when a stable is on fire, or oxen, or sheeps-dung be cast out, they are more easily drawn out, nor will returne thither, which is no wonder. About their motion, and voyce, a few words shall suffice. Their pace is slow, not to say sluggish; whence we say, this is to hunt the Hare with the Ox; their voyce is different according to the age and sex. The Calves

Varro.

Athenic.
Rhodigin.

Heftch.
Scaplan.
Sinilas.

D. Scip.

Cælius.
Democrit.
Ælian.

Cardan.

Varro.
H.N. 1.11.
c. 57.

Arit. H.
N. 1.8.
c. 45.

Scrobo.
Theych.

Veginius.

Pliny.

Arit. H.
A. 6. c. 21.

Varro, R.
1. 1. c. 5.

Tha.
Phrat.

Arit.

Varro.

C. 6.
G. 6.
L. 1. 2.

Drogonia.
L. 5.

Cæli.
Rhodigin.
Antiqu.

23. c. 30.

At Wal-
tham-Ab-
by in Eng-
land grows
a grasse to
lofusius
that beasts
in 24. hours
will eat, if
not watch-
ed, all they
burst.

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sounds deeper then the growen; the cows, then the Oxes, their voice changes when they are geld. Their proper voice is lowing, in Lat. *boare, boare, boare*, in Gr. *Mukima*, &c. They yield us many things for food, namely flesh, braines, tongue, heart, liver, milt, reines, cale, inwards, feet, and marrow, besides milk, to make cheefe and butter. Their *flesh* is prime; and though the Egyptians abstain from Cow-beefe, and feed on Bull-beefe: Yet the Romans have forbidden the latter to be sold, because under Tarquin the proud, by eating thereof, women great with child, got the pestilence. In Homer, beefe was set afore Nobles. Lyfander going into Jonia was presented with beefe among other varieties. In the kingdom of Senega, they eat nothing else. Prometheus, saith Pliny, was the first who slew an Ox. Of old in their choyssest Feasts, they fet whole oxen roasted on the table. The Turks also in the lesser Asia, or Natolia, when a childe, whose parents were of any fashion, was to be circumcised, would roast on a great pole a whole ox, with a whole belweather in his belly, that had a hen with an egge in her, in his belly, and this is eaten by the kindred. Beefe yeelds the best nourishment, and agreeable to the stomach, and not so subject to purifie. It is strong, and fast food, but not soon concocted. It is not warterish indeed, flegmaticke, or slimy, but yet it is hard of digestion; very nourishing, but breeds thick blood. But if a melancholy person feed too freely on it, it shall hasten his fit. In some it swells the Spleen, and breeds a consumption. Beef is not so good while fed in the Spring with the first, thin grasse; best, when fed with thick grasse, and near feeding. The Dutch, Scotch, English, and other northerly people pickled, and smoak it, and to eat it. They pickle it most in midst of October, and November; when they hang it up, some smoake it first with juniper, which they strait quench again. Some think it gives it a good colour to fume it with bundles of dry netles, and that it makes it redder; but you must feed but sparingly hereon, for it nourishes little, and lies long in the maw, being very hard to digest, and then yeelds but ill juvce. The middle-aged is thought best, that hath not been overlaboured, yet old one will hastily fatten. Bruerious sawe fow, that the Avern. sent, that were so fat and heavy, that the buyers must carry them in carts. It hath been forbid, on great forfeits, to kill, in cities of note, diseased oxen; and the guilty takers, have been heavily punished, since tainted flesh lies heavy, and breeds corrupt humours, and spirits. Veal is temperate food, juicy, savoury, light of digestion, breeds good blood, esteemed so by all, and preferred afore Kid by many. Cresentienus would have it killed fifteen dayes after. Others would have it weaned till thirty dayes old: In many parts of France, they are brought to the Butchers of a month old, sometimes lesse, sometimes a month and an half old. At Rome they let them suck off a whole year; and

keeps them from grasse, and other fodder: they are after that a delicate food, and used by Francis the first of France. One magnifies their flesh, if weaned at three or four months old, and killed at a year old compleat. As for *Fleisier*, they are better food, then growen, but fall short of Veal. At Lions they like yearlings, and those of six months, and of two and three years old. Bruier, commends those that never took Bull. Their parts we shall now consider.

A *Calves-head* boyled, and eaten warme, is known good food; the *brain* taken out, boyled a while in water, and then skind, and sod in wine, and seasoned with spice, is good: The *jaw* is counted a dainty; but an Oxes is disputed of. The *Neats-tongue* is prized in Germany, both in the high and low-Countries. Of old it was not sacrificed, the Priests under a pretence of Religion, preserving it for themselves. Some stuffe it with spice, and roast it. The *udder* uses to be par-boyled, and with fat or butter fried, and sprinkled with spice, and so served in. The *paunch* was in old times cried up: the *tripe* among the Romans especially Pliny. H. N. l. 8. was a dainty. Their Ancestors had such a special care of this beast, that there are Presidents of some condemned by the people of Rome, for killing an Ox, and denying they had eaten the tripe, and were banished as if they had murdered a husbandman.

The *sweet-breeds* were a service at great mens tables, and of old magnified: Nor are *Neats-feet* cast away. *Drogiens* the Cynick is said to have died with eating one raw.

As for their *use in medicine*; Beefe allays a swelling; and laid on hote, disperses impostumes, and boyles, if Pliny be to be believed. Cowes-flesh laid on the privities, strangely heals the ulcers and coupsing. *Beefs-pottage* stops the flux, saith *Simeon Sethur*; Pottage of Cow-beefe heals sore and chapped mouths; Calves-broth is reckoned among the helps of the Colick, and Bloody-flux; Veal new killed, sod in vinegar, and laid moist under the armpits, takes away the rank, rammish smell; If women about the time of conception, eat it well roasted with heart-wort, they shall bear males. See *Aldreovand*, about Neats-feet broth among the Portugeses: And also, the oyl of Neats-feet is good against all aches and lameness. *Haly* saith, that Ox-liver burnt, and drunk, is good against loosenesse, and bloody-issues. A distilled-water made of a Bull-calfs-liver cut small, with a like quantity of Sage-leaves, helps the hard swellings that lie crosse the bottom of the belly. The extract of the Ox-spleen, suppresses the monthly termes.

Pliny writes of superstitious, and magical uses, or rather abuses. The *paunch*, or tripe-broth taken in thought to expel venomes especially poyson from Henbane, and Hemlock. The *intestals* of a Calf, fresh and warm, chopt small, yeelds a juice, that with a like quantity of Sage and Parsly, are good to rub cold, waisted, and palsied parts. The *pissle* weakened in

Sextus.

Marcell. Empir.

in vinegar, and smeared on, makes a smooth face. A red Bulls dried to powder, the quantity of a peece weight, some fay quency, some say kindle lust. Their *marrow*, especially the Calves, is a softener: the Cowes marrow kneaded in flower, and eaten as bread, cures strangely the bloody-fluxes, especially eaten with new cheefe: the Bulls is dryer, and the powder taken in wine, helps strangury, and gut-wrining; dissolved, and with a fourth part of red myrrhe, and of oyle of Bay, or Laurel, as much loosens the shrunk sinewes, if you anoint the feet and hands morning and evening. Pliny saith, the Ox-marrow out the right thorough, powdered with sowte, is good for the hair, and the eye-lids, and corners, if they aile any thing. Of the *fewet*, and the preparation of the Bulls-tallow, thus Pliny: The way of fat, the same is used about the fewet, and tallow of the beasts that chew the cud; the veins are taken out, it is washed in Sea-water, or brackish; beaten into balls, sprinkled with Sea-waters, then sod oit, till the rank smell be gone; then by continual salting it, is whitened; that is most prized, that is taken from the reins: If you resume the old, you must first melt it, then oft walk it in cold water, then try it again, and pour very sweet wine, or perfumed on it; thus by often leaching, the malignity is boyled out. *Disorder* shewes how it should be sweetened. It is much hotter and dryer then Swins-grease, and cooler then the Lyons; good for fiery, and hard swellings, with rosin, and fullers chalk it is soften; *Aesculapius* adds wax; and perhaps it comes near to Galens fourfold medicine. It takes spots and freckles out of the face, with seed of Cunila, and ashes of harts-horne, if it be burnt in the beginning of the dogdayes, with gum and hony it helps wax kernels, and the like; mixt with bears grase, and wax, a like quantity, it strangely suppresseth impostumes, and with nightshadened rue it helps freckles, warts, bunches and the like. Calves fat take out of the flank, boild with three pints of water, and taken in as broth, helps the collick. Bruised, and with salt it is good for lownesse, and fore-heads, mixt with a little nitre, and like ser-cloth it is said to heal the swellings, and other griefs of the cuds. It helps against poyson that uses to kill with exulcerating calves-fewet with goose-grease closes the chaps in the mouth. Ox-fewet rubbed on, takes away the stiffness and pain of the neck. It helps the griefs of the fundament, with flower of frankincense it heals cornes, and leproses, morekw, tetters, fellons, scurf, taken with salt, raisins, origanum, leven or bread. For fellons this fewet with salt, and goats-grease is smeared on, or burnt in the Sun with roses. The Ox-gall cures fore-heads presently, if mingled with juice of *Asses-dung*, and a little powder of Sea-onion and Bulls-gal; or with nitre, wine and oyl, well mixt with fullers-earth and nitre, it piels of the leprosie and scurf. It is applied to cankers and fistulae with juice of leeks and breast-milke,

rubed on with a woollen-cloth on the navel, it voids worms; smeared on with hony, it helps the squinoy, closes the chapt fundament, opens stoped emords; makes loof-bodied, laid on the bottom of the belly with butter, Deer-marrow, and oyl of Bay rubbed on the knees, it helps them; it helps the griefs of the privie parts, annointed on with oyl, as also of the cuds: dissolved in hot water, it takes away the dead-flesh of the fingers; and womens terms it helps, laid on with moist woollen.

Ox-gal mixt with hony, drawes splinters of Pliny. yron, and thorns; and kneaded up to the thicknesse of hony daubt on, with allom. And Mirrhe is a speedy cure for worms in the privie parts, it disperses kernels, and impostumes in any part; as also ox-blood, and flesh layd hot on; with oyl of palma Christi, and roses, it helps the hearing; and layd on with cotton, takes away tinkling noyses in the eare. There are who think that the Kings-evil is helped by a linnen band, dipt in a warm ox-gal, and tied under the hys, shifted, and layd fresh on three dayes. Hippocrates advices, that if a woman hath not conceived, her months shewing themselves, on the third, or fourth day, all unbray'd moystened with ointment, is to be layd on with a woollen cloth, and so three dayes renewed; and the third day, an ox-gal is to be shaven, and the shavings mixt with oyl, and put in a linnen cloth, and three dayes together layd on, and then she shall conceive. Finally, it is strange that is written, that some Egyptian women, to become fat, take in a bath 9 dayes a chirat of Cows-gall, dissolved in Cow-pisse. About the *calves-gall*, understand that with vinegar warmed, it takes away Nits, it lesses the chops of the eyes, bruized with hony, and especially Mirrhe and Saffran; and is very good to put into the care with a Snakes-slough, sprinkled with lees mixt with oyl, it drives away gnats. The stone in an Ox-gall, the Philosophers call it *Alcheron*, it is like a ring, bruised to powder, and snuffed up, helps the sight, and prevents eye-rheums; and is good for the falling-sicknesse, if you take thereof the quantity of a pea with the juvce of into the nostrills. The *hide*, and *glue* also hath it's use in Phisick: Burnt, it heals kibes, especially out of Pliny. an old shoe: with hony it eats off cankers in fores; the ashes of an old fow burnt, helps against a bruise from a pinching shoe. *Glen* sod out of Ox-hides, especially Bulls, and that out of their eares, and pizles of very foverain; nor is any thing better against burnings. But it is often counterfeited, nothing more taken out of other leather to cozen you. That of Rhodes is truest, and therefore used by Painters, and Phisicians. The best at this day, called German, is of a light red-colour, very hard, brided as glasse, and blackish, and twice as deere as the other. It is called *Xylocolla*, or wood-glue, because it is used in gluing wood together; others call it *Taurocola*, or Bulls-glue: we owe the invention of it to *Dædalus*; it joynes things firmer then any other thing can. Melted

Pliny.

Proper. Alpinus de Medic. Egypt. 1. 3. c. 3.

Diofcor.

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in vinegar it heals the scab, adding lime-wit, if it be not gone too far, weakened in vinegar, and with brimstone, boild on a soft fire, to the thicknesse of hony, and stird boyling, with a fig-tree sprig, applied twice a day, it cures itch, melted, and dissolved the third day, it heals, and closeth wounds, made by iron. Mixt with vinegar, and hony, it removes Nits. It helps teeth, boyl'd in water, and rubed on, and presently taken of again, and then the teeth washt with wine, wherein hath been sod sweet Pomegranet-roots, drunk with three cups with hot water, it helps spitting of blood; as also the hot collique, and belly-ake, if layd on. The *horne*, the top of it, burnt, two spoonfulls weight, with hony, swallowed in pills, helps the Pustick, or short-breath, or wheezing; as much burnt to powder, with three cups of hot water, and a litle vinegar, helps the Spleen, taken three dayes in, if fasting. The *hoof* is also medicinale; boyled, and eaten with mustard, it resists payson: burnt, and drunk in pottage, wine, or other liquour, it restores milk to womens dried breasts; the smoke thereof kills, or chafes away Mice. The *Ancheduit* drunk with hony, brings away worms; with mulled vinegar, it lessens the Spleen; with wine, it fastens the teeth. It is frivolous, but not to be left out, saith Pliny, if it be but to please women, that the ankle, of a *white heifer*, sod 40 dayes and nights, till dissolved, rub'd on with a linnen cloth, makes a clear smooth skin. The *Hips* burnt, and drunk, stop fluxes of blood. The *thin skin* moyst from the calving, heals a fore face. The *Stone*, found in the head, drunk out of the same water that the ox drinks, helps effectually the head-ake.

The *milk*, being thick, and fat passes not so easily through us; yet Pliny saith it loosens the belly, and is drunk in the spring to purge, because it comes from many herbs whereon the Cows feed hartly. It works out payson, especially, that that corrodes, and inflames; particularly it helps against Doryenium, Colchicum, Hemlock, and the sea-hare. Warm'd, and gargled it soon allayes the pain, and swelling of the almonds under the eares. Taken warme from the Cow it helps an exulcerated stomack. A cupfull, with so much deer-sewer, tried, and moyst pitch, and Scythian red-oker, helps strangely a consumption. A black Cows milk with powder of Sefamum is good to drink for a woman that after child-birth vomits blood, after forty dayes. The same boyled mitiges, and removes fluxus, and desire to stool, if newly mixed, and two parts boyled away, for the strangury a litle hony must be added; and if the pain be great, lay on the navell dust of Harts-horn, or Ox gall mixt with cummin-seed, with flesh, up-goared. Nor are these the prescriptions only of Aëtius, Galen, and Pliny, but our late Physicians prescribe the like, and therein they quench a gad of steel nine times, and apply it hot to the patient, or glitter with. Hippocrates prescribed it of old, and others mixt with liquour. For he when the guts were

wounded, and the breath came forth beneath apparently by the wound, and the breasts emptied, advised it to be given with a like quantity of milke, wine and water. And Gesner also testifies, that some cried it up, if the liquour mixt with wine, and milke were drunk certain dayes in Marias-bath. *Butter*, although Pliny say it was a food prized only by Barbarians and poor common people, yet Galen, and Diosco. and others proclaim great vertue to be in it. Vitis de Furno Cardinal, and a famous Physitian saith that *butter* is naturally warm, and moyst; heat is predominant in it, it is viscus, and oylie. Oft eaten it moystens the stomack, and make loos-bodied, softens the breasts; cures ulcers in breast, and bowells; especially, when fresh and new, agreeing to mans complexion, helps apostumate breasts and lungs; it being the proper quality to ripen, disperse, and cleanse all superfluous humours, especially if eaten with hony and fugar. Butter resists payson, supple the members, softens, and helps, smeared on eye-smart, disperses, and ripens impostumes, eases fore breasts, and lungs, and gripings of the bowels, supples, and loosens shrivelled up sinews. It is a special remedy against inward payson, if hartly drunk melted in hot milk, after you have drunk venom, for by its fatnesse it stops the passages, that the venom reach not suddenly the heart. But, new butter is thus praise-worthy, not so the old, &c. Thus far the Cardinal. *Cheese* is good against fluxes, strangury, and colique. Hippocrates uses the same against his third sort of consumption. Donatus writes that he gave a peller of Sicilian cheese dipt in hony to a boy troubled with worms. Of the *nby*, hote, or cold we shall elsewhere discourse; certain it is, that it thins and cleanse away the thick humours, and brings down the belly; to this last purpose the ancients have used it often, especially in those, which they would purge gently, as the melancholy, and those that had the falling sicknesse, the leprous, the scald, and those that brake out with blisters over the whole body; above all it is good for shortwinded taken with neezing powder. *Ox-pisse* allay'd with amber burnt, and quenched therein removes impotence. Hippoc. purged there with female wombs, that conception might follow. Bulls-pisse takes away leprosie, and scurf; heals fore running-heads; allays grief, of the ears dropped in with myrrhe. Finally, if the hearing be very thick, the Hee-goats, or Bulls, or maus old urine hot, and vapouring out of a long necked bottle helps: they mixt with it a third part vinegar, and some Calves-pisse that never tasted grasse. Ox-blood, men write, that taken with vinegar, and moderately it helps against blood-vomiting, it cures dogs newly fawn mad: it concocks ulcers, if a playster be made of it with sewer by the fire. Bulls-blood with meal smeared on softens hardnes, and dried it scatters impostumes in any part: it kills serpents; takes away face-spots; and that it is deadly to drink, by reason that it soon conglutates, and hardens.

Midas King of Phrygia, and Pflamennitus of Egypt, Themistocles and others, who died by drinking it, are sad examples. Pliny excepts *Aegyra*, a city doubtles of Achaia, which Homer calls Hylperesia, where the Priestesse being to divine, drinks bulls blood afore shee descend her prophesying cave. Signes that you have drunk it are stopping of breath, even to choaking, closing the jaws, and eares, almonds, rednes of tongue, infecting the teeth, &c. They help against it, with mariorane, cole, wildfigs, calamint, ladyglove, falpeeter, pepper, copperas, black forthille, thorn and time. A few words of the Dung: The bulls dissolves swellings, and callow hardnes; the ox-dung is layd on, made up with vinegar cataplaine-wise, for hand-greets, and hard-swellings. Layd on coles with melantime, snuffed up, it heals megrim, freck, preft out, and weakened in urine, it is commended for gut-ake, men use of it bruised, and sifted for a purge for the barren. The calves dung differs little from the oxes in vertue, Marcellus saith, that it is a present help daubed on fore joints. Some parts are for many other uses, to say nothing of husbandry, treading out come, carriage, warre, fights; of the hornes are made, besides cups, lavers, cupping glasses, lanterns, cornets, bugle-horns, trumpets and bows: Of the *horns* are made shields, bucklers, helmets, tents, ships, ladders, belts, girdles, mony, pouches, bottles, bellows, whips, shoes, and other things; say the Pyraean siege in Greece, and that of Ripella in France witness that they have been for food. Out of the fagg-ends of hides comes glew. Out of the *sinews* are made both tough and yielding whips. The *teeth* smoothen paper. Cleanthes the Philosopher, wanting mony to buy paper, wrote what hee heard from Zeno, with ox-bone on tiles, or slate. The powder of the same helps rheums and gout. The *blood*, being thicker then other, and soon coming together and tising, is very fit to make mortar. And calves blood with minced veal kept ten dayes in an earthen pot, makes fit baits for fish. The *sewet*, especially of the heifer, and that about three year old, makes the best candles. If you malm your feed with ox-gall, afore you sow it, it is good against field mice: nor will Ants come neare a tree, if you rub the root with cow-gall. The same and lees counterfait Lyciam, and make a golden colour. Of old they made brushes of ox-bristles, and painters their pencils. The Troglodites spent with age, used to strangle themselves with an ox-tail. The Chinois feed their fill to fatten them with cow-dung. Some smear their walls with it against flies. Their *hoofs* drive vermines from vines.

Oxen admit of many differences from their biggnesse, variety of hornes, monstrous shape of parts, place, and otherwise. In the Isle Aden (of old Madocce, and Ocellis) their Cows are as great as a Camell, snow-white, with hornes, and ears, some pricking up, some hanging. Aristot. saith, that the Egyptian are greater then those of Greece. Those of Ethiopia in

Prete Gan his dominions, beare such great hornes, that thereof are made vessells that hold many galons. The African Cows are so litle, that they scarce reach the greatnesse of our calves, but can beare any labour, and hard-shipp. And such are the Alpine, (or rather Alti-plin.) Altinum being an old city and a flourishing one on the Venetian coast, near Aquileia. The English Oxen pride themselves in their hornes, and admirable savoury flesh, called Beeffe. Those in the north of America want a dew-lap, and are bnoil-backed. In Dariena they are said to be whole-hoof'd, not unlike Mules, great ear'd, trunked like Elephants, all-colour'd, and of a delicate flesh. Out of Spain are transported into Hispaniola, Cows so fruitful, that one common Cow in 26 years shall calve 800 calves, while their race is still breeding also. The Aonian Oxen are many coloured, whole-hoof'd, have one horne, coming out of their mouth. Vartomannus saw the Sultan in Arabia, presented with Cows-horne like Deer, and black; and some had but one horne, and that on the forehead. Among the Arachatae are wilde Oxen, black, ginning, flat-horned. The Armenian have a double-horne, writhed, bending, and entortled like an zuy, and so hard, that it can turn a sword's-edge. In the Province of Bengala, their Oxen are as thick as Elephants. In Holland the Cows, especially the pied ones, yeeld a great foor of milk. In some parts, in summer-dayes, each Cow yeelds to the pale 44 quarts a day. In the Lazer-huys at Amsterdam, they hold 22 Cows, out of which they gain in milk and cheese, beside what themselves daily spend, about 900 crowns a year. It is not wonder then that in butter and cheese, they export to forreigne parts each year, for 200 Sesterties, that is, 1000000 Caroluses. They make it out of Butter-milk, that we in England give to the poore, and to our swine. In Scotland there are very white wild Oxen, of thick and long Manes, savage, and fierce, so hating mankind, that they will for many dayes abtain from that, that man hath handled, or breathed on, and being taken by wiles, they dy of themselves; they have a sinewy, gristly kind of flesh. In the Canaduan quarters there are vast Oxen, short, and blunt-horned; of apoties whiteneffe, bunched-back'd, and strong as Camels, that will take up burdens, Camel-like, with bended knees at their keepers command. I know not whither Plin. he meant those of Caria in Asia, ugly, with a bunch on the shoulders, reaching from their necks, with loose hornes and laborious: The other, black, or white, are condemned to toyl. Those of Cyprus feed on mans dung. In the City Diu, are small Oxen, with great and strait hornes; but, besides their finesse to carry, and toyl, they will be taught to obey a bridle, and to pace like horses. The Cows of Epirus, each fill a payl with milk; the milker stands upright, or stoops a litle, for sitting he cannot come by the udders. The Oxen of the same place that are called Pirrhique, from Pyrrhus, who

Pin.
H. N.
l. 3. c. 45.

who held (men say) so much of them, are highly cried up; they come to that perfection at four years old. They were very great, and there are of the race yet left. But now they desire yearlings for breed; but those of two years are better.

Ælian.
H. N.
l. 12. c. 36.
Herod.
l. 4.

In Eubæa the oxen are almost all white; whence Poets call Eubæa Argroboæon, silver-oxed. In Galatæa hill of Africk, the oxen, when oldest, are not so great as those of eight months in Italy, faith Leonius. In, or near the region of the *Garamantæ*, they feed præposterously; for if they direct their mouths strait to their pasture, their horns bending downward hinder them. The *Helvetian* oxen, specially those by Zofinga, a town of Bern, are prized for tender flesh. In *India* there are oxen with one and with three horns, and whole-hoof'd, they are as tall as Camels, their horns four foot broad. One of them was brought to Ptolemy, that held three pitchers full of water. They run there with horses, being equally fleet, perhaps *Pliny* means these, speaking of Indian wood-bulls, greater than wild ones, swifter than all others, yellow, blew-eyed, their hair turning thwart, their chaps gaping to their ears, their horns wagging, their hide as hard as a flint, and wound-free; they hunt all wild beasts; they are taken only in pits, and kill themselves with their fierceness. I know not whether they are those, the *Sangiaco* and *Bassæ* use by *Damascus*, with thin tails and hair, valued each at four or five Ducats. Wee read also that in *India* is an Ox, called in their native tongue *Ignaragna*, near the Port of the Holy Ghost (so called), and elsewhere, where it is less cold, of a monstrous bulk, feeding on grasse, that is red, far bigger than our oxen, skin'd like the Elephant, having two arms near the breast, the teats hidden, wherewith these suckles her young; headed and mouthed as ours, sweet of flesh, that the Indians much long after; yielding fat like butter, wherewith they season their food; the bones as firme as ivory. The *Umbrian* Oxen, chiefly by the river *Clitumnus*, are famous; they are the greatest in Italy, and most white. The *Sabine* are also cried up; there was one of old bred by a household-er, of a strange size and shape, whose horns were many ages kept for a miraculous monument in the porch of *Diana's* Temple. The *Leutrican* Oxen, their horns and ears are alike, and of appece. In a Province of *Catay* are white and black ones, tayl'd as a horse, but bushier and long, bearing fine hairs, like feathers, of great value, which the Cavaliers hang on their lance top, counting it an ensigne of high gentility; the horns, as they lift up their head, reach to their tayle; the horns are so great, that the inhabitants use them in stead of buckets. The *Myrian* have no horns. Among the *Negros*, the cows are all black, or white, or mixt, none red. They winter them by the marsh *Mæotis* among the *Nomades*, and summer them in the plain fields. Of the Oxen, some have no horns, some they saw off. The *Peco-*

Pin.
Ælian.
H. A.
l. 3. c. 34.

Pin.

Artif.

Æli. H.
A. l. 2.
c. 51.

nian bulls are flagg'd bodied, especially on breast, and chin; and carry so great horns, that scarce three or four quarts of wine can fill them; whereof the *Pæconian* Kings and Nobles make cups, tipp'd with ivory and silver, faith *Theopompus*. *Hungary* abounds so with them, that *Sigismundus*, Baron of *Heberstein*, affirmed, that he saw one onely way toward *Vienna*, driven above 80000 in one year. *Comandu*, a *Perfian* region (so called of a city there) hath many vast ones, all white, short and blunt-horned, bunch'd-backed like Camels; whence they become so strong, and fit for carriage. Such are also in *Quivira*. The Bulls there are wild, yellow, low, crook-backed, great maimed, and hanging; their flesh good wholesome, and not unpleasant: the Natives eat the tayl, drink the blood, wear the hides. The *Phænician* Cows are so tall, that the tallest shepherds milk standing; lower men must have a footstool. In *Phrygia* and *Erythraea*, the Oxen wag the horns as the ears, faith *Aristot.* and *Ælian*. In *Norway*, *Illaud*, *Godland*, *Tæronia*, Oxen are wilde, untameable, and long-bearded. The hunters skulk among the trees, and when they are stroken, they either revenge, or kill themselves.

There is also a Sea-cow, a great, strong, furious, dangerous monster, spawning like, not above two at once, oftener but one, which it tenders, and carries carefully about, where-ever the swims, or goes a land; she carries her fry 10 months, the is known by cutting of her tayl, to have lived 130 years. On some Northern Coasts, they have teeth like Elephants. In *Carida*, a Scotch Province above *Galloway*, are Oxen of tender and sweet flesh; but the fat never thickens, but flows like oyl. About *Torona*, lastly, are some that a few dayes afore calving, have no milk, but at other times are flush, they go ten months with calve. Of the *Tartarian* Oxen, tall as Elephants, black and white-hayred, and hanging thick on their shoulders, like Lions, three foot long, soft as silk, I have spoken already. As also of the *Tartarian*, (that *Scaliger* calls *Syrian*) that have no dew-laps. Thus far their differences in a promiscuous way. *Hætiæ* belongs the beast called in *Corgo* *Empalanga*, shaped like an ox, and of the like bulke; onely he carries his head, and neck aloft, like a Stag; the horns strait, and long, knotty at top, bending a litle inwards, wilde, but not harmful, nor fierce; and might be brought to the plow, if the inhabitants had the wit to use them. As for monsters, there was seene at *Millian*, and *Satura*, a calf with two heads; at a village of *Thuringia*, one with six feet, two heads, and but one passage; and one hath been seene with seven feet, and a bunch of flesh on the side, also one nose, and eare like a man, with two heads and faces, and double-bodied; onely two hind-feet, and faced like a Lamb. Anno 1551 was seene at *Basil* of the *Lauraci*, an Ox with five feet; such as we saw once in *London* in *England*; and another with a horn in the neck, and short legs

Paril.
Vener.
l. 1. c. 22.

Ælian.
H. A.
l. 16. c. 13.

Vener.

Pin.

Monsters.

Scalig.

Ælian.
H. A.
l. 1. c. 22.

Pin.

OF THE FOURFOOTED BEASTS.

like a dwarf. You shall here also have the print of a monstrous calf with two bodies, upright, and with five eares.

of *Hercules* his Temple, was a Bugle, or *Urus*. De Bial. See *Aldrovand*, of the manner of taking him. l. 1. c. 2.

ARTICLE II.

Of wild-Oxen.

POINT I.

Of the Wild-Ox, or Bugle.

Wild-Oxen, in Greek *Agrioi*, that differ from the wild *Agrayai*, in this, that these though tame, and bred of such, yet running loose among the hills a pleasure are left to feed in woods and fields, but those are not wild so much from the nature of the place, as their own naturall disposition; such are Bugle, Bison.

The *Urus*, or Bugle, *Macrobins* makes a French, and *Aldrovand*, a German name: For *Ur* signified among the old Dutch wild, or great, vast and strong. *Servius* yet will have it to be Greek, fetching it from *Orai*, the mountains. The Poles, at least about *Mafovia*, *Samogitia*, call him *Tur*; which *Gesner* thinks to be the *Tarand* among the Ancients. The *Lituanians* call him *Zumbro*. Whether it be *Sphæratæ* his thezæ, we shall inquire elsewhere. *S. Hieronymus* calls him *Bubalus*, or *Buffe*, as also *Martialis*, and the unskilful common *Romans*, faith *Pliny*. Authors differ somewhat about the description, unless happily there be several kinds of them. *Cæsar* and *Pliny* mentions no shagge hair on them; *Eraf*, *Siella* ascribes to them shaggy temples and beards; as also *Albertus Magnus*, who confounds him with the *Bonafus*. For the rest, he is little less than the Elephant, shaped and coloured like the Bull. Some are fifteen cubits high, three men may stand between his horns; rough of hide, and dew-lapped. Horned thick, black, short, red-cyed towards the outer corner; great-headed, broad-faced, almost black, especially his temples, chin, neck. The face, sides, thighs, tail, inclining to red. He is found in the *Hyrcinian* wilderness, in *Podolia*, *Samogitia*, *Mafovia*, and *Hungaria*. They are not tameable by man, not the least of them: they are exceeding strong, and swift; he can tosse with his horns Horse and Rider, and turn up reasonable great trees by the roots. Great men count his flesh seasoned a dainty. The northern Barbarians drink in the horns, some head their darts with them. Amongus, faith *Pliny*, they make clear lanterns of them, that cast light very far; and the shavings are used to many delightful purposes, now painted, now smeared, pictures called *Cerostrata*, or horn-peeces are made of them: It may be that wild-Bull, that did so much mischief in *Macedonie*, that King *Philip* killed at the foot of *Orbel*, whose hide, and horns of fourteen hand-breadth, dedicated in the porch

POINT II.

Of the Bison, or Buffle.

The name *Bison* comes from the German word *Vicent*. The *Oppian* copies have it *Bisfoon*, from *Bistonina* (happily) a *Thracian* wood, but it is a mistake. *Dion* calls them *Bissones*. Like wild Oxen they are, bristled, and have rough long manes, which they shake on their thick neck and shoulders, that it is terrible to behold; so bustle also they are about the cheeks and chin. Their horns crooked, but bending upwards, and sharp as swords; not broad, and cross'd as other Oxen; but starting upright, and hooked only about the tip. Their shaggy hair smells of musk, short-headed, great and fierce-eyed, and sparkling, broad fore-headed; the horns so wide from one another, that three men may fit between; A bunch on the back; the hinder-part of the body lower than the fore-body. *Gejner* saw a horn of them at a Gold-smiths to be tipped with silver, of a glittering black, eighteen inches long, hooked like a bird of preys talons. The tongue so rough, that were it sick, it fetches blood. The Greeks used not these, nor Bugles in *Phyficke*, not having tried their vertue; though *Indian* woods are full of such; yet parts of them are of more efficacy in medicine, (it is thought) than any part of ordinary Oxen. Of this kind are the Bulls of *Florida*, an Isle of the new world, the natives call them *Butrones*. They have horns of a foot long, bunched backed like Camels, long and yellow haired, tailed like Lions; they never become tame, the wild cloath themselves in winter with their hides; they conceive the horn fortnaine against poyson, and wears them for defence against it.

Hither may by referred the Scotch *Bison*, or wild-Ox, who is said to be milk-white, maimed and crested like the Lion, otherwise like the tame Ox; but so wild, and untamed, and opposite to mankind, that he fluns grasse, or shrubs, that a mans hand hath but touched; but taken by wiles, hee pines to death, and finding himself aimed at to be caught, makes at his hunter with all his might.

POINT III.

Of the Bonafus.

Aristotle calls him *Bonaffos*, and *Bolinetos*; the *Pæcones* *Honapos*, the derivation of the name is uncertain. Divers mistake him for the *Urus*, or Bugle; and some later Writers calls it the *Indian* Cow. He is bred in the mount *Mestapius*, that parts *Pæconia* from *Media*. The *Pæconians* callit *Monapus*. Of a Bulls bulk, thicker than an

Aldrov.

Pin.
Solin.

Oppian.

Gyllius.
Gesner.

Pin.

Ambros.
Panc.

Aldrov.
de Bæd.

l. 1. c. 4.

Artif.

Ox,

Arist. H.
A.1.4.c.71.
Scalig.

Ox, Not high. His hide stretched out, holds enough food for seven Guests. Like an Ox, only named like a Horse; but softer haired, and lower; yellow haired. His eye-hairs long, twen all-coloured and red, rougher then that of the Paroa Mares; but wholly under: None of them are very black, or carnation; voyced like the Ox. The horns crooked and thwart, and unfit for fight; a palm breadth, and not full longer; each as thick as may be grafed: Of a handsome shining blackneffe. His ancles rather spreading, then bending down-ward. He wants the upper-teeth, as the Ox, and other horned cattel. The thighs are shaggy; he is cloven-footed; his tale is not great for his bulke, but greater then the Oxes. He casts dust about, and digs up the earth like the Bull. Her hide is stroke-prooffe. Her flesh sweet, and therefore men hunt her. She flies when stroken, till the tyre her self. She defends herself with her heels and dung, which she casts from her four paces; (not three akers, as *Pliny* faines.) The use whereof is good; it burns so strong, that the cole can scorch a dogs-hair; that it is, if you fit, and fright her; otherwise the dung burns not. Such is her look and nature, when her calving-time draws near; she seeks the mountains, and dungs about the place where the calves, as if she would so fence herself; she dungs in a large measure. All this *Pliny* doubtlesse, *Solan* and *Ælian* have taken out of *Aristotle*. It is uncertain whether the horns, joynts, and shoulder-blades, and ribs, as *Caminus* on *Gesner* describes them, are this beasts or no. The horns are two foot long, and three hands and a half finger round, near the head, a foot and half a palme. Between the horns on the fore-head, 3. Roman palmes and a half. The turning joynt 3. Roman foot long, and two hands-bredth and a half about. A rib six foot long. To say nothing of the omoplate, or shoulder-blade: We have added here a figure of the head and bones.

POINT IV.

Of the Wild-Ox of the Ancients, or Bubalus.

Aldrov.
quadr. l. 2.
cap. 5.

THe name Bubalus is at this day an uncertain thing, as also it seemed to be in *Pliny* his time; nor had it any peculiar sense among the Greeks. Many call divers wild-Oxen, especial there where they were brought from abroad, Bubali. Some make them Goats. We shall distinguish them; calling the Bubalus, that *Aristotle* calls a timorous beast, having blood without fibræ, or string-veins; the same with the African Ox. *Scaliger* speaks of the Bubalus, whose blood and horns are described by *Aristotle*. *Pliny* makes him like a Calve, or Hart. What is it then? the Gazella? No surely, wherefore what I could learn out of the African stories, I will freely impart.

The African Oxen are scarce so great as our

Calves; but very strong, and can endure hardship. I find him called Dant, and Lant, and Elant; Hath an Oxes face, but is much lesse and nimble; yea, swifter then all other wild-beasts. The hide impenetrable, iron cannot pierce, only a bullet can; White-haired, taken in Summer, because their hoofs are loosned by the burning of the sand. *Belonius* describes another African Ox to be old, lesse then the Hart, neater and greater then the wild-Goat; of a square and well-shaped body, goodly to behold, yellow-haired, and so shining and smooth, that she seems sleeked over. The belly hath red-wrinkles, and seems to incline more to yellow then the back, that is dusky-coloured. It is short, but strong thighed; thick and short-necked, and hath a little dew-lap; headed like an Ox, the horns black and very crooked as the Gazella, bending like a Moon in the increase, wherewith he cannot well defend himself, so crooked they are. Ox-eared, full, and high-shouldered; the tale, like the Panther, or Camel, Horfes, hanging to the hams; black-haired, twice as thick as the Horfes; lows like the Ox, but not so loud. He is not the same, whose picture *Horatius Fontana* sent to *Aldrovandus*; for it was of much higher and slender neck, and the horns bending back, and crooking as in a wild-Goat. It had great ears, the proportion of the head near the beginning of the neck; faced rather like the Kid then the Ox; wherfore reckoned by some among the African Goats. The whole body yellowish, except that the mulle and horns were blackish: It was very long-haired.

POINT V.

Of the Buffell, and Strepsicera.

That the Buffell, or common wild Ox, is not that Bubalus in *Aristotle*, shall be manifest by comparing the History of either; but it seems that he gave him no precise name among the wilde Oxen, while he saith, that among the Arachoti (an Indian City,) are wilde Oxen, that differ from the tame, as much as wilde Swine from others, black, and stout-bodied, with a muzzle, somewhat crooked, the horns upright. And perhaps this of ours shall be that wild black one, of the strange operation, of whose blood on women, if their loyns be pointed with it, *Othanes* speaks in *Pliny*. To describe our Buffell, he is like, but greater and higher then the Ox, thick of body, hard-skinned, and the parts lean, and spare; his hair black, thin grown, and small, lide, or none on the tayl. The forehead rough, and curl'd with intricate hair. The head hanging earthward for the most part, and but small for such a body. The horns long, crumpled, and black; sometime hanging near the neck inward, toward the inner-part of the breast; sometime upright. The neck thick, and long, lower toward the rump. The tayl short, small, and hath almost no hair. The thighs thick, strong,

Aldrov.
quadr. l. 2.
cap. 6.

Alberus.

Niphs.

OF THE FOUR FOOTED BEASTS.

strong, and short for such a body. They are often found in Asia, Greece, Ægypt, the Isle Borndo, and cities of Italy. We have seen many about Fundi, they love to bide among waters. Their low is frightfull. The female hath milk, and in coupling time, and at first calving. At first they seeme gentle; but provoked, (and that they are by red) there is no taming them; chase them, they fly strait on, and never turne. Enraged, he takes water, and drowles into the head, to cool his boyling blood. The female endures not a calf of another kind; knowing it by the smell, but smear it with cow-dung, the smell deceives her, and she suckles, and brings it up for her owne. They will labour hard; they are lead, and ruled by an iron, or brass ring strook through the nostrils, with a halter, or bridle fastened to it. Men say, that if he be overladen, you can not beat him up; he will not stand up, till you disburthen him. Their flesh is sold at Rome; and the Jews like it; but it is so slimy, that it cleaves, if you clap it on the wall. The cheefes, that abound in the Pistorian Province, called Marzolinis, of an ovall shape; (that is, shape like an egg, are preferred above those of other cows, are better tasted.) They make rings of the hoofs, and horns, which worn on fingers, or toes, are excellent against cramps; some tide on four score of threads, of gold, silver, brass, and iron; thinking them more effectuall so. Cloaths, especially doublets are made of the hide; and horse-trappings in Narzinga. The *Siamenes* make bows of the horns.

The Ox called Strepsiceros, or sharp-horned, is faced rather like a wild Goat, then an Ox; yet tayled like the ox, though very short. Coloured he is all over like the Deere.

ARTICLE III.

Of the Sheepe.

From the History of the Ox we passe to the description of the Sheepe, of old sacred to the Egyptians; and with the Athenians of such esteemed, that an action was ordered to be commenced against him, who lead a live Ram. And it was enacted by an old law, that none should out of a flock of a 100 head, kill one unclipped, or that had not yeaned. Which *Athenæus* writes also, adding that in his time in the sacrifices of Pallace, neither might an ewe-lamb be slain, nor cheefe tasted. And among the Romans of old, no mulds were imposed on delinquents, but paying sheep, or oxen, where also by the laws of their King, a man-slayer was to pay a ram. The tribute among the Persians and Medes, was sheep. Those payed L.M. These as many more. And the Staby (to speak of places at hand) sent yearly to Nola, to the President under the name of tribute, and respect a great white lamb with gilded horns. To say nothing of the custome of giving for a reward lambs-flesh to the unridders of riddles, and to Poets.

Placur.

Agel. l. 1.
c. 1.

Ambr.

Whence they that sung for, or of such rewards were called *Aruthooti*, alluding to sheep.

Among the names of this beast among the Latins are *Ovis*, the Sheep, *Aries*, the Ram; *Agnus*, the Lambs; *Adafia*, or an old Ew; *mina*, smooth-bellied; *Aspica*, *Lanata*, woolly, or fleeced; *Bidens*, two teetthed; *Pecus*, cattell, *Onis*, is the name of the female, or ew. Though *Festus* saith it was used in the *Mafuline* of old, about mulds, Whence *Oviaria* denotes a flock. The Ram is the male. The Lamb is not yet a year old. *Adafia* is an old ew, newly yeaining. Matrices were those that suckled lambs for the Palladium, called *Tokades*, or pafchals, nourish everywhere. *Mina* had no wool on the belly. *Aspica*, the small ones, and thin-wooled. *Lanata*, from the fleece. *Bidentes*, that had two teeth longer then the rest, and such only were to be sacrificed. Also *Ambidentes*, and *Didentes*. *Festus* takes them for those that had upper, and lower teeth. The name *pecus* is given to grazing cattell, and usefull to man. Often to sheep only. The Greeks have as many names for the sheep and ram. As the *Laconians* sheep, *Amos*, *Bara*, *Probatæ*, or *Bota*, *Goita*, the sheepe; *Didees*, two-teetthed; *Dikuma*, ewes that yeain twins; *Eggalon*, milke; *Emiron*, soft woolled; *Iereion*, for sacrificed; *Metastates*, ewes with lambs under their teats; *Mesfikei*, middle-aged, between lambs and sheep; *Kar*, *Karnos*, *Karas*, *Ois*, *Ox*, *Poon*, *Rens*, simple names for any sheep. The Ram is called *Arietha*, *Krios*, *Arietos*, *Dedmaon*, *Eubris*, is the bel-weather geld; *Ktilos*, the leader of the flock; *Mesfichas*, *Okrhai*, is the wild sheepe. The boors pig is *nescius* in Latine. *Ari*, *Amnos*, *Erfai*, *Katbetos*, *Kyllin*, *Pratinion*, *Tranon*, *Phagilon*, &c. are Greeke names of lambs. Not to stay long on the description; this beast being so well knowne.

Yet we shall set downe the most memorable things we meet with in authors. Nature hath given the sheepe a most weak head. The braine is leane. The horns of the ewes are commonly smaller; many have none. Some lambs are yeained with horns, the rams crooked, and sometime more then two. *Cardan* writes that he hath seenne some choyce ones with foure, we shew the figure of three, and six-horned. The gilded change the place of the horns, bearing them on a quite contrary fashion; their eyes look a fide downwards, far one from the other, darkish, or blackish, and broad. The lips thin, contrary to ox-lips. The teeth continued; the ew having fewer then the ram. After a year and half they change; (saith *Crescentius*), namely the two fore-teeth, and six moneth after, the two next, then the rest; in three or foure years at most, they shed them all. The teeth of the younger are uneven, when they are bigger, equal; when they wax old, ungummed, lessened, and rotted. Their bellies are as of all that shew the cud. Those of the lamb we hereafter lay open. Know that A denotes the stomach, B the gummies, C the salter, D the Tripe. The resticles fall to the ancles. The udders of the ew are two; as

Plin.

Amos.

Amos.

Amos.

Descrip.

Aristot. de
gen. anim.
l. 5. c. 2.
Aristo. H.
A.1.2.c.3.

many the teats. Those of Chalcis a part of Eubolia, have no *gall*; those in Nexus, a great and monstrous gall. *Ælian* saith that here they have a double gall; in Pontus none; and that in very cold countries, in deep snows, and hard winters, they have no gall, nor being folded, eat; but in Spring, as they come to pasture, they get great galls; and so it is with the Scythian sheep. In Scops their *pleen* is very little, and round. Their *reins* are even, and the fewer lies thicker about them; if they be quite compact with fat, it kills them; which comes from rank pasture, as in the Leontine Land in Sicily: wherefore the Shepherds there drive them late to pasture, that they may not eat too much. In Syria, the fat lies thick between the skin, and flesh in geld-rams, as in hogs. In their feet, and hind-legs sticks a bump, near the bottom, shaped like a round worm, within woolly and hairy, like rose-cups, that hold the feed, inclosed in a softy and thin down: It is oft taken out, when the sheeps-feet are sod, and resembles the rottenness in worm-eten, rottenwood, or chest-nuts. Shepherds are of opinion, that for this cleaving to the joysnts, no creature alive would be swifter then the sheep. The *tail* is thick of wool. *Hesiod*, denies, that the North-wind peaces their *skin*, by reason of the hair, or rather the wool. There is scarce a *place* where they are not found, more or fewer, and of great difference according to the place, as we shall hereafter shew in the differences. Their food is grasse, whence called *Pœphaga*, grasse-eter; yet they eat leaves also. That grasse is sweetest to them, that grows where the plow hath gone, next that in dry meadows. To prevent fullness, men lay salt in summer in woddan gutters, which they lick when they come from pasture, that as it were seasons it to them. In winter they nibble, or browse on elm, ax, leaves, and the second cut-hay, called Cordum. They eat also the *Cytisus*, tame fisses, and, if need be, pulschaffie. Some give them a litle kern of reſins, and bran. Those that are pastured in salt marshes, yeeld more milk, and more savoury cheefe, and are more fruitful, and more tender, and sweeter fished; such are those fat ones by Ostia, and the neighbouring Portuenſian Land, by the tenth mile-stone from the city (Rome) which land the Tiber runs through, where are many brackish marshes round about, which *Gomeſius* saith be tasted of. The Sheep that drink river-water, couple soonest, and being used to salt from yeaming-time, yeeld much more milk. And on some Sea-coast, where are dry and salt meadows, Sheep lives twenty years, and bring young. In Scotland they feed in the wilde on *Cytisus*. In India they feed most (especially among the *Preſſii*) on grasse well wetted with rain. In Pontus they fatten on the bitterest worm-wood. They that feed on *Læterpitium* usually, are first cleaned by it, then fatten on a sudden, and their flesh is wondrous sweet. When they will breed, is known by this, they after feed will neele, and then

fall a sleep. The Jews give theirs palm-nuts, which the Babylonian-Smiths use for their colics. They delight also in Coluthea, Aphax, wool-herb, vine-buds, Adiantus, and with the Brabant, in juy, and rosemary; and lastly Erygius. Among the Ichthyophagi, or fish-eaters, and about the Calamian Indian village, and in the Province of Aden, they feed on fish; wheron also they was fat in Lydia, and Macedonia. For their drinks, they batten on troubled water, and where much is. Also on rain-water after wind; in summer after Northern cool showers; in winter after Southern warm showers. Change of water is thought to hurt them, especially about coupling-time.

Ews of a year old may yeau lambs; but the lambs are better, if the fire, and dame be older. Columella thinks the second yeare as a good breeding-time, and so till five, and at seven to cease breeding. *Florentinus* is for breeding when two years old. *Aristot.* and *Palladius* affirms, that they may hold on breeding till eight, nay to eleven, if well tended. It is worthy noting that lambs slight yong, and seeke old ewes; and themselves are better, and more usefull, when old. They all couple from the setting of *Arcturus*, that is, from the third of the Ides of May, till the setting of the Eagle, that is, to the 13 of August; and those that are conceived later, are huge and weakly. Columella yet saith, that the young couple in Spring, the ewes that have had lambs, about July. They go five months with lamb, and yeau commonly but one at once, yet sometimes two, three, nay four. In some places the goodness of the pasture, and their natural strength enables them to breed twins. In some places they yeau so, twice, or thrice. After the third or fourth coupling, they conceive; and sometimes one Ram serves a whole flock. Sometimes they yeau monſters. *Albertus* calls that *Cinirus*, that comes of an ew, and a hee-goat. In Helvetia, some lambs are yeaned like goats afore, and sheep or rams behind; but such live not long. The Musſon is engendered between the shee-goat and Ram. From the coupling of shee with wilde rams, comes a brood of the fires colour, which holds also in the succeeding breed; the wool, in the first yong, rough; in the following ones, softer. The brood is of the colour of the veins of the dames-tongue, when pregnant. Males are engendered by the ability of the dame, and fire, and the vertue of the waters they drinke. *Aristotle* teaches that they must take in south-winds, if females, and northerne-blasts, if males be engendered. The same happens, if you tie the rams left, or right testicle; water also doth much in it, since the cattell that drinke of the River Charadrus bring all males. Rubbing on salt, and nitre helps herein; and overfatness hinders conception. Men take a preſage of a happy year from their coupling; for the Shepherds say, that, if the older begin betimes, it will be a good year; if the younger be forward to couple, they shall have a bad year. The

ancients

ancients call the conception after the ordinary season, Cordum. There is a secret liking between Sheep and Shee-goats, therefore they willingly come on together. From Rams-horns bruised, and digged out, some say Asparagus sprouts; *Dioſcorides* denies it. If the fame be buried at the root of a fig-tree, the fruit shall the sooner ripen. What is related of the Flitter-mous, *Pliny* reckons among magical experiments. They are thought to hold enmity with the Wolfe, Beare, Tiger, Elephant, especially the Wolfe, Raven, Eagle, Serpents, Bees. These plants are hurtfull to them, wolf-bane, peafe, acorns. What is said of the wolves entralls, and some other things, we shall elsewhere examine. If they eat Sanguinaria, their whole belly is distored, and they void a most filthy, unfavoury foame at mouth. If they eat Calamogroſtis, it makes them thirsty, lean and ras-calls, and draws blood up into their stomack. Duva (a French herb, and name) but tasted by them, breeds in their liver litle black living things, called also Duva. Peafe fowen in March is unwholesome for them. Acorns make them cast their lambs, if they eat too freely of them. In Attica they will not touch the root of Thapſia; if strange ones to happen to eat of it, it either cast them into a loofness, or kills them. They cast their lambs, if frightened with thunders, if not looked to. In Thrace, the Turks conceive, there are two stars, appearing in July and Agust, just over their heads, or vertically to them, on whose lustre, if sleep chance, lifting up their heads, but once to see, they dy upon it. Therefore then they are held in house. They may live 10 years, but for most part they dy sooner; yet the place contributes much to the lengthning out of their life. Some in dry pasture, and by the sea-coast lives 20 years. Some *Æthiopian* sheep last 12 or 13 years. Bleating is their voice, in Greek *Bleachthai*. Homer yet calls lambs *Mekeomenas*, or meakers. *Claudian* saith, they grunt. In coupling they have a peculiar voyce, saith *Aristot.*

As for their nature, dispositions, and usages; they are so filly, that thence a fool is called, *Probatores*, sheepish; and it is become a Proverb, There is no profit of sheep, if the shepherd be away; gentle they are, and they onely of all beasts rage not in yeaming, nor presently after, saith *Aristotle*, but every slight occasion scares them, yet *Hærac* calls Lambs bold. Beside the shepherd and his dog, they have a Ram, or bell-Weather for their leader, whom the shepherd yet first teacheth; and you may see them march out of their folds, or fall, as in martiall array; especially if the shepherd conduct them, whose very hiffie they understand: That the Rams are given to fight as soon as their horns peep out, all know. They will but at, not only their own, but sometimes at mankind. Their rage is taken off, if you bind with prickles a board a foot-broad crosse their fore-head on their horns, or bore there through in the crooking near the ears; or, if

you geld them. Experience proves it untrue that some write, that in the six winter-months they ly on their left-side, and at spring-time on their right; as the Sun about that time takes the right, after the left-Hemisphere.

This Cattell loves coole-springs, bites up grasse by the roots, spoiles trees, hath milk eight months; in the fore-winter feeds greedily, as if forelaw the hard weather and wants; is impatient of cold, though best cled of all beasts; yet those fear it leſſe that have large tails. *Miqaldus* saith, they will follow him who shall stop his ears with wool. The wild ones growing old, are nourish by their own breed; They know their own Lambs by smelling on them behind. They use harder layer then goats. The Ews make a thicker water then the Males: Both they and Goats shew their months at coupling-time, and after for a time, then they cease till yeaming-time; then have a shew of them again, whence shepherds know that the time draws near; after they purge exceedingly, first redfish, then very red sturfe.

Lambs-flesh, the Ancients cared not for, say some, as *Turnebus*. Yet *Plautus* speaks of eating it at Rome; and *Hærac* reckons it among delicacies, as *Plautus* mentions Lambs inwards. At Athens, none of old might eat of an unshorn-lamb. The flesh is hot in a low degree, but over-moyſt, and the younger the moyſter; therefore though good for the strong, ill for a weak-stomack, being slimy and cleaving; though *Crescentienſis* commends yearlings. Columella prefers Autumn afore Spring-flesh. A Lambs-head is counted a delicate dish in a feast. The *Syringatus*, *Terpianus*, *Pasticus*, are but names of several dressing the Lamb.

Rams-flesh is not moyſt, and well boyled, breeds good blood, especially if well gelded. Weather-flesh is wholesome for people of all ages, places, and at all times; if yong, two years old, not too fat, and bred in a dry aire, fed with good grasse. Those are best that are bred in the high Trivican mountains, saith *Ferrius*. Those in moyſt places in Campania are little set by. *Bellonius* holds those most favoury that are roasted whole, as the shepherd in Thrace, above the river Nessus use to do. The Lambs-bones are counted dainties. *Arnoldus* saith, their marrow is poyſon, against which Phefants-flesh is an antidotes. Yet *Ælianus* saith, that *Assianus* used to feed on it. Sheeps-flesh, or Matton for the taste, and over-moyſture hath been forbidden to be killed after the fiftieth of July, or S. Iames-time, as fitter food for Spring-time, then Summer. The feet trouble the stomack, unless the worme afore spoken of be taken out. The shoulder of Mutton roasted, and cold again, is much eaten. The Lungs minced. The Tigurine Helvetians, of the Liver make puddings, rolling them up in the call, spitting them on sticks, and roast them upon the grid-iron, they mince sweet-herbs in. Some bray it whole, with bread crumed, and strain it, and besprinkle

E 2 it with

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it with spices to give a good taste, and handsome colour, then make it hot, and lay thereon thrushes par-boyled in flesh-pottage, and fryed a while in butter. The Milke, the newer the better, and the same is to be thought of the cheefe. Over-fatt is disflowed. As for Medicine, a Lamb layed warm with gourds on a

Ætius.
Bromus.
Pliny.

part bitten by a venomous creature, fetches out the poyson; and the pottage is very good in quartan agues. The braine further madnesse, as *Gesner* hath it out of a Manuscript. Their feet yield a decoction, good against the pains in the bladder. The Rams-stones powdered, and drunk in water, are good for the falling-sicknesses. Their lungs take away bunches in the flesh, roasted prevents drunkennesse; shredded, helps bruises, and makes black scars white: And is used for purges. The Liver helps blood-hot-eyes; and is good for a woman swelled in child-bearing, taking in drink, and with meat. The

Hippo.

Plin.

Milk toasted, & powder taken in wine, refits the collicks; which yet *Pliny* somewhere counts it superfluous, it being among the Magical precepts, that the patient must say, that he makes a remedy for the spleen, and then he must hide, and steal it up in his chamber, and repeat a Verse three times nine times. The Sheeps-bladder *Galen* advises them to take in drink, burnt to powder, who let water go from them in sleep. Their Gall, and honey, cleanses the ears; and smeared on the head with earth dries up scurfie; with the fewer, it eases the Gout. The Milk is cried up for wholesome against all kind of venom, except the Buprestis and Hemlock.

Mizadus.
Pliny.

Afore your quartan-fit, take three cups of it with a dram of Swallows-dung: If to a fixt part you adde four penny weight purified Citrus, and you drink the decoction, it loosens. The same boyled on hot stones, is good against fluxes, and of an exulcerated belly. The Butter that comes from Sheeps-Milke, smeared on with honey, together with ashes of a dogs head, or the womb, boyled in oyl, takes away dead-flesh growing about the fingers. Old Cheefe taken with our meat refreshes distentericks, or eaten, and scraped, and taken in wine, helps the collicke. Rams-horns burnt to powder, with oyle some give to make the hair curl.

Plin.

Diofcor.
Plin.

The ashes of the Trotters with honey, heals the bite of a Mouſe and a Spider. The Curd in a dram of wine, helps against pricks and all strokes and bites of the Peterman, and other Sea-fishes. And is good for Infants drunke out of water, when troubled with pend, or curdled breast-milke, or given out of Vineger. Put under, or into the nostrils, it stanches blood, when other things help not.

Plin.

Plin.

The Sewer is taken either simply, or for that that is taken from the ribs, or call. One faith that melt it, and dip a cloth in it, and lay it on a burnt part, it helps: It is laid on the kibe-heels with allum; If mingled with ashes of womens hair it cures fellows. It heals all kind of griefs about the privities; mixt with ashes of the pumice, and salt, that fat taken from the call, especially that from the reins.

The Lambs marrow melted by the fire drunke with oyle of nuts, and white sugar, dissolves the stone in the bladder. The urine of a red or black sheepe, mixt with honey, is good for the dropfy. Their dung a Physician in Myſia used, weakened in vineger, to take away Cornes and hard knobs; and mingled with rose-salve to cloſe, and skin over an ulcer from burning. Out of vineger smeared on it works the same effects. The powder out of oyl, applied as a cataplasme, cures a fresh wound. The ashes of the same, with salpeter, or the ashes of lambs hucklebones are good against the canker, and ulcers, that will not cloſe. Sheeps dung also heat, and kneaded, allays the swelling of wounds. And is good for the colique. A mountain-sheeps dung in September shut up, the Moon decreasing the day afore, gather up early, and harden in the Sun, and pounce it to powder, and keep it in a glasse, or tin vessell, for use. A spoonfull of it given three dayes out of water, cures the colique; if a fever goes with it, use wine. The wool only layd on, or with brimstone helps many unknown griefs; and is of that vertue, that men put it on medicines. The wool of a butting ram, taken from between his hornes, and burnt, is good for the head-ake. The ashes (in Diofcor. opinion) draws over a crust, hinders dead flesh, closes ulcers. Men burnt, when clean and pickt in a new earthen pot, to use as afore. Some shear it, some pluck it off, and clip off the top, dry, and pick it, and put it together into a new earthen pot, and drench it in honey. Others with lincks set it on fire, it being sprinkled with oyle, and rub the ashes with their hands, putting in water, and then let it stand, and oft shift the water, till it lightly touch, but not bite the tounge, then they lay up, and keep the ashes. It hath a cleansing vertue to the cheeks. Wool taken after sheep-shearing, between the spring Equinoctiall, and the Solstice, when they begun to sweat, that from the neck is most commended. Such wool helps green wounds, cleansed, and broken bones, with oyl, vineger, or wine; since they soon suck up moisture, and by reason of the ranknes of the cattell (called Oefypus) soften, changed, or applied seven dayes, it heals the bite of a mad dogge, and out of cold water heals the splents fingers; out of hot oyle it helps running fores. Herodotus relates, that the Carthaginians sheephards with such wool sidge the veins of the crown of the head of their children, when foure years old, and some the temple-vein, to prevent rheums and catarrs. And if the children in finding chance, with crampes, the sprinkling of goats-pisse helps them. If a plow-sheard hurt, an ox his legs, or hoof, stoned pitch, and greafe with brimstone, wound up in shorn wool with a red hote iron thrust in, cures it. The same wool with oyl of roses, stanches blood in the nose; and another way is good to stop the eares of hearing: Blood is also stanchd by binding the joynts ends. Oefypus. It foul that cleaves to wool, helps digestion. It helps the inflammations, closes, supples ulcers. It helps the inflammation

Albert.

Galen.

Diofcor.
Galen.Pliny.
Marcell.

Pliny.

Diofcor.

Pliny.

Marcell.

Collum.

Plin.

Galen.

Diofcor.
Ætius.

mation of the matrice, taken with butter, and Melilote. It cures wounds also taken with barley ashes, and ruft, equally divided, it helps also the canker and ulcers. It eats out the swelling about ulcers, and evens knobby flesh. It cures Sint Antonies fire taken with Pompholyx. It provokes sleep, used with a little Mirrhe waſht in two cups of wine. It lessens face-spots, with Corrick honey, that is counted stronger. About gathering and preparing it, see *Aldrovandus*. The skin of the feet, and mufles of the ox and sheep, long boyled on a soft fire, to a gelly, taken out, and dried in the open ayre when it whistles, is commended agains ruptures. So much for the medicinal use.

Sheep are also usefull otherwise outwardly; both their fleece and pelts, or skins yeeld us stuf for cloathing. The Arabian Bedevini wear no other, as Vitriacus relates. Zeno Citicus, and Crates of Thebes, fewd Sheeps-skins within their cloaks. *Vollan* also Bishop of Worcester in England, was ever clad in Sheeps-skins, because not Leopards, but the Lamb of God is celebrated in the Temples. They were also used in Tragedies, whence the wearers were called *Diphtheriai*. Only beware of the skins of sheep that dy of the plague; for such breed not only lowliness, but also Sint Antonies fire. That out of Ælian is strange, a garment of the wool of a Sheep bitten by the wolfe, brings an itch on the wearer. New married women among the Romans wear girdles of wool. The Pefcia, or Capucia, were made of lambs-skins. The Moſaists was (saith *Ffſtus*) sheeps-skin, wherewith helmets were covered. The same skin hath been used in stead of paper. The Belly Diophanes makes good for killing vermine. Purfes have been made of rams stones: And bellows, saith *Ffſtus*. The smallguts make lute, and bow-strings. In May make Sheeps and Goats-cheefe. Their pisse yeelds matter for salpeter. Their dung fattens the ground. If you cloſe a candle of pure rams-fewer in a linnen cloath, and put it into your cheſt, it keeps your cloaths from moths. Their differences we shall take from their hair, or wool, or place, and handle them promiscuously. The Scythian Sheep are soft, the Sauroman hard woold. Those of Tarentum soft-wooled. The Colonian rougher, because kept ever abroad. Wee shall represent their shaggy shape to you. They are called Montaneers from their rough, and unkemmed wool. There are also *Wild Sheep*, not much greater then ours, but swifter, and with horns bending back, armed with butting, and strong foreheads. They oft in the woods strike to the earth fell Bores; sometimes they combat fiercely with each other. In the *Gordian* forestt memorable in Iul. Cap. time, were many painted beaſts kept, and an hundred wild sheep. In the Lybian deserts called Adimain, was a beaſt shaped like a Ram, as big as an Aſſe, with long dangling-ears, and short wool, she would suffer herself to be backed; though she was not kept for that use, but only for the Milk. Con-

Galen.
Hæ.

Diofcor.

Pliny.

Marcell.

Ætius.
Cap.
Collig.

N. 2. 17.

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trary to ours, the Ewes are horned, the Rams not. There they are commonly seen, in Numidia also sometimes, but counted prodigious. The Egyptian-fleeces resembles rather hare then wool. Garments of them being thredbare and died again, last an age. They are greater then those of Greece. About Damiate the weatherers have tayls round and so great, they can scarce carry them. Leo Affricanus saith, hee hath seene of those tayls that weighed some 70, and an 100 pound. In Æthiopia they have no wool, but wear all rugged camels hair. Their Sheep are very little, and the natives cover their privities with the tayls. In Nubia the rams are yeared with horns; the Ewes also are horned, and which femes a miracle, they drinke but once in every foure dayes. At Tunis they are so loaden with their thick tayls, that they can hardly fit themselves, but those that tend them are faine to bind their tayls on lile carts, when they would remove them. In England they never drinke any thing but dew, and they of purpose keep them from water, finding by experience, that it hurts them. In Arabia some drag tayls after them three cubits long, fome of a cubite broad. Such are found in Arabia the stony and the Happy; the tayls weighing some 26, some 44 pound. Where also are Rams whose hair hangs to the ground. That, that is called the Indian, but is indeede the Arabian Ram, hath no hornes, but long fleece, and a tayle reaching to the ground. There is a kind of smooth-rams, called Moromorus, who stands stone still, and stays till any come near him; sometimes hee is shy, and flies for feare with his burden. The Ram of Angola (called Guineensis) is of the bignes of ours, thick of head, the after part sticking out more then ours: eares dangling; the tayl reaches but to the ankles; with a great pripple; the yard in the midft of the belly; the hornes finall downward, bending toward the eyes, and as it were crumpled; at the bottome of his neck a long hairy mane, the rest of his body is short-haired like a goat, but hee carries no wool, black-headed and eared, and the upper-half of his tayl, the rest white, as also the hinder-part of the head; the fore-legs white to the knees, the lower halfe black; the hind-legs all black; about the dock and back white, the fides have black spots; footed like the goat, black-hoofed. Yet these Sheep are as ours, some coloured on one fashion, some on another; and one kind is thick-legged like a man and fat, having no hanging mane, nor wool, but is haired like a goat. Greater then ours, their belly strutting out like an ox. In Asia some are red-wooled. The region Camanda feeds some as big as Aſſes, and those fat and fat, with tayls of 80 pound weight. The Caustianian fleeces are reddish, or yellowish. Those of Chios, for want of pasture, are very small; but their Cheeſes is much cried up. The Clazomenian, are some white, some cole-black, some Raven-black. The Co-raxine wool is of all the pureſt.

Plin.

Diofcor.
Sicil.
Bibliothe.
l. 4.
Ælian.
Strabo.
Plin.Belion.
obſervat.
l. 2. c. 60.
Hæro. l. 2.
Æli. H.
A. l. 1. c. 4.Nier. H.
l. 9. c. 52.Marckgr.
H. Bral.
l. 4. c. 10.Ælian.
Hæmoia.

Strabo.

Therefore the Rams for breed are not
E 3 bought

bought under a talent. Those of Crete on mount Ida, called by the shepherds Striphoceri, have straight-horns like a Unicorn, round and hollow, and wreathed like a shell-fish, no bigger than our Rams.

Strabo.

He. Boe.
Ælian.
de Venat.
l. 2.
Olaus M.
Boet. de
Scot.

In the Isle Erythræa (it may be Gades) their milk is so fat, it yields no whey, and they choke within thirty dayes, if you blood them not. In a part of Scotland, the sheep are yellow, their teeth gold colour, the flesh and wool like saffran. In Gortynis, they are red, and have four horns. In Gothland are Rams with four and eight horns, which makes them so fierce, that to prevent mischief, which they else do to each other, and to other creatures, they are fain to saw them off. They bear a soft and long wool. Hirta, one of the Hebrides, hath sheep taller than the greatest hee-goats, with horns as thick as those of Oxen, and somewhat longer, and tails touching the ground. In Spain in *Marinus* his time, there was such a glut of sheep, that he knew many shepherds owners of thirty thousand, where their Lambs are better then elsewhere. In Illyria they report, the Ewes year twice a year, and for the most part couples; nay, many three at once, and four, and sometimes five. And give two quarts and a half of milk at one time.

Jul.
Alex.
Anst.
Mirab.

Ælian.

The Indian reacht in bignesse the greatest Asses, and yean commonly four at once, ever three at least. Their tails reach their feet which they cut off, both that the Rams may come at them, and that oyl may be fetched out of their fat: The Rams tails also are cut off, and the fat taken out, and are so neatly sewed on again, that the seam is not to be seen. Of which Rams we shall give a figure; one without horns and tale, but having something growing in stead, with a kind of dew-lap under the chin; all white, except the head, and hoof-ends which are black. Another notably fenced with bending and wreathed horns, they and the head of horn-colour; the muzzle, feet, testicles, and bottom of the tale of a shining white, the rest all red. The fleece of the sheep of Ithria, or rather Liburnia, is liker hair than wool. There is a kind said to be in Italy, that carries four or six horns, but weakly ones, and their wool is uselesse. In Laodicea in Asia are small ones, with noble choyley fleeces. Lusitania hath been so fertile, that a Lamb hath been commonly sold for four pence, and a Sow weighing a hundred pound, for twelve-pence, a sheep for six-pence. In Lybia the Rams shoot their horns early forth. In Macedonia, they who would have their wool white, drive them to Aliacmon; they who would have it black, or dark, to Axius. The Madagascar sheep have the heaviest tails. In Magnesia, and Mesopotamia, they yean twice a year. Those of Milesia hold the third place in goodnesse.

Pliny.
Geiner.

Pliny.
Athense.
Theophr.

In Molcovy in the deserts about the rivers Bonifenes, Tanais, and Rha, is a wild-sheep, they call it Scigios, about the row, but shorter-

footed, with lofty strait-hornes, markt with ringlets, (whereof the natives make knife-helths that are transparent) very swift, and leaspligh. The Nabathæans (saith *Strabo*) have all white sheep. In Naxos, they have a double gall. In Panchæa, are much softer wooled then elsewhere. In Peru, they are as big as Asses, long-legged, grosse-bodied, long-headed, Camel-necked, and shaped; their flesh is excellent, especially their lambs. They plow with the Wethers, which also carry their wood; they never bleat, their colour is white, black, and ash; they can carry fifty pound weight, and let them rest a while, and lay on their burden again, they shall bear it some miles; they can make them fit, and eat, and turn their head about, and grin; if over-loaded, they stink and squat down, and till unloaded, can by no blows be forced to rise up. Their wool exceeds ours in fineness, length, and abundance. They are fed with corn, but are fed with little, and can three or four dayes together go without eating or drinking. *Mathiolus* exactly describes them, telling us that they resemble partly a Camel, and partly a Deer. They may be well called *Elaphocameloi*. He is six foot long from the neck to the tail, but four foot high from the back to the foot-sole, the neck two foot long; like a Camel in head, neck, and mouth; especially in the parting of the upper-lip, and the genital; but somewhat longer headed: he hath Deers-ears, and is Ox-eyed, having no foreteeth in the upper-jaw, but grinders on both sides, as most cloven-footed beasts have, and it also chews the cud; the back rigid, which they the cutter hath forgot; the shoulders near the neck depreft, or flat; the sides swollen, broad belled, high buttocked; the tail but a span long, in all which it resembles a Deer, as also in the thighs, especially in the hind legs; cloven-hoofed, the cleft afore drawn far out; it hath claws round the foot, pointing and ending in a thick skin; the sole as the Camels covered with skin, piffes backwards as the Camel; the testicles pinching inward; broad-breasted, and bunched at the knitting, tween the breast and belly; whence a kind of excrement seems to vent it self; the neck, breast, and fore-feet white, the rest of the body reddish, or dark-red, the muzzle black, and the forefeet from the knee shining bright. It is tame and gentle, but can endure no cold, as others that are brought us out of hot countries. Offends no man, but revenges it self fitrantly on those that vex it, or wrong it: about the buttocks, not defending it self by biting, or kicking; but by spewing, or squirting on the vexer with a force, to the utmost length of the neck stretched out. So lustfull it is, that where there are no females of the kind, he will couple with Goats: His coupling-time is Spring, and Fall; yet those three-goats conceive not by him, being even forced, as appears by their crying; and it is a kind that hath no agreement with this beast. They call it an Indian-sheep, who brought it to us (saith *Mathiolus*) but you may judge how vast

vast the difference is between it and our sheep. Those Chilenian-sheep, whose picture the Hollanders brought over, differs much from these. They are somewhat in make, or bulk of body, but that their hind-feet are cloven in twain, and their fore-feet in four, and the wool very long and shaggy, which they highly commend: but they are a like natured, and are questionlesse of one and the same kind; only the climate makes the difference, unless they differ in that befattering revenge, whereof I speak even now, and is thought where it lights, to breed the scab. *Martial*. (Epig. l. 14. ep. 157.) writes, that the sheep of Pollentia near the Alps, are all gray-fleeced. The Rhetian sheep of six or seven years old, get new horns to their old. They yean two or three at once, small ones, and not till after six or seven, the first being strongest, and of thicker bulk. The Sauromatan sheep are hard haired. The Syrian have tails of a cubit long, and most what woolly in that part. About Tarnafar, a City in India, are seen sheep, horned like bucks, much larger then ours; and monstrous Lambs, whose shapes we hereafter represent; one headed like a Sow, another with two heads, and five feet; a third footed like a Horse, and headed like an Ape; a fourth, three headed; a fifth, double backed, with eight feet.

ARTICLE IV.

Of the tame Goat and Kid.

IN this history wee shall first deal with the name, *Capra*, or Goat; then with *Hircus*, or Hee-Goat; after with *Hædus* or Kid. *Varro*, *Cicero*, and *Nonnius* fetch *Capra*, a *Carpendo*, from cropping. *Festus* from *crepans*, because the Goat makes a noise with the thighs; *Martinius* from *capio*, from devouring, because it is a beast that eats much. It changes names from age and sex. The Greeks call it *aix*, from *aïssin*, to rush on with a force. But the newborn are called *Aiges*, and *Erriphoi*, and *Chimæaroi*; the yearlings, or middle aged and grown *Tragos*; yet this seemes to be the name of the males only. It hath many Synonymies, the late Greeks call him *Gida*. The Turrethians *Kapra*, the Cretians *Korrano*, Helycinians *Meikas*, and *Astignas*. The *Kelades* are shee-goats, and horned for most part; the *Kelades* are marked in the fore-head, as with a bunch, or hard-skin; the *Maades* are milked. The *Imas* is wild; the *Chimara* borne in winter, though the Grammarians take it for the name of the whole kind, of what sex or age soever. Called *Hircus*, (or as the Sabine *Pircus*) either from the roughnes (*Hirsutus*;) or from the Hebrew צֶרֶף, to burne, since it is a lustfull beast. Called *Tragos*, from *Tragein*, to eat; it being a ravenous beast; or from *Trachu*, because it is rough kind; or from *Trechin*, running. The geld-one is *Kaper*; the Egyptians call him *Mender*. *Hædus* is that that comes off the *Kapra* and *Hircus*, the hee and shee-goat; or the

kid, borrowed from *ἄλκις*, filthy. That of three or four months age is *Erphos* after called *Chimæar*, till it have yong, and is milked. They of Rhodes call it *Korannos*, and *Kekeycephalos*, and, in a certain law, *Diakala majoris*, from feeding on fruits-talks. They are all cloven-footed and horned. They change colour, and are sometimes variously generated. The hair differs according to the sex, thicker in the males, softer and finer in the fhees. *Festus* calls hairy men goatish. *Pliny* denies that they are all horned, but you may guesse their age by the horn, which is long and sharp. In Delos one of the horns is two cubites, and weighs six and twenty pound. Their eyes, which they ever thrust into their corners, look diversly at times; in the dark they shine, and dart forth light. They are flat-nosed. The shee hath no upper-teeth besides the double-ones afore, and the rest are fewer then those of the hee-goat. They have all a shaggy-bard; the Latines call it, *aruncus*, *spirillus*; the Greeks *Erregos*, *Krygkos*. The little that hang out of their jaws, *Festus* calls *Noneolas*; *Varro* *Mammillas*, teats; *Pliny* *Lacinias*, rags, others *Warts*. The females have two dugs, slender feet. Some have thought, as the Egyptians sayes and others, that they breathe by the ears. *Philes* saith, the signe is, that if you stop their noses, you offend them not: Especially the wild ones, who are said to have a passage betwixt the horns to the lungs, which if you stop with wax, you choke them. *Barthol*. *Eustathius* credits it the rather, because he saith he hath found some such thing in man, though *Aristotle* is against it. They lay, the liver, if you take it out, stirs longer after. They have more bellies then one. The milk is round. *The sharp artery* is like that in man. As for their place, they abound in the North. In Candy is great store, because there are no Wolves. In Ithaca *Homer* calls *Aigibaton*, goatish. The best Goats-cheese is in the Helvetian, Rhetia, Switserland, especially in the hilly ground about the Fabarian baths: They are found also in Achaia, Africa, Nubia, Sardinia, Cephalonia, Miletum, Damascus, India, the New-world, in Spaine, Corfica, and else-where, as we shall see anon in their differences. The ground fittest for them, the Greeks call *Aigibaton*, &c. Their food is manifold: they delight most in shrubs, the wild *Cytisus*, *Oken-leaves*. If they eat too many Acorns, it causes abortion. They love the Olive, and so were said to be hated by *Minerva*, and they will crop young Vines, wherefore they were sacrificed to *Bacchus*, Figs and Wheat, Ash and Tamarisk, Goats-beard, and Dogs-royle. Beans make them fall of milk, and cinque foyle, if you give it five dayes together, afore you let them drink. And to this end some try dittyany under their belly. In some places they are greedy after Hemlock, &c. *Ladanum* also (a sleepie plant) such as Arabia boasts of; it may be this chance, because of the offensiveness of the smell. Goats hurtful otherwise to all green things, covets most sweet shrubs, as if they knew

Varin.

Anst. D.
Scription.

Varinus.

Pliny.
l. 28. c. 11.

Anst.

Alcamazo.
Archid.

Oppian.

Anst. H.
A. l. c. 11.

Columel.

Ælian.

Lucet.
Plin. H.
N. l. b. 12.
cap. 17.

know their worth; they will crop the stalks of sprigs, that are full of sweet juice, and wipe from their stinking beard that thence drops thereon: This they roul in dust, and bake in the Sun; and therefore are goats-hair found in Ladanium. Later Writers tell us, that the Arabian woods are made waste by the feeding of Goats, and that juice cleaves to all the beards. Thus is it also at Cyprus (they say) and that there sticks to Goats-beards and knees, the flower of the Ivy being cropped off, afore the dew be off; after, the Sun dispelling the mist, and the day clearing up, a dust cleaves to the dewy goats-beards, and thence ladanum is kammed out. Their commonest food is Spire-grasse, and Capriola, because better tasted then others, that they delight in salt, torturers well know; for *Dracula* the Hungarian Governour, oft cut out the soles of captive Turks feet, and rubbed salt in, and used Goats to lick it out again to increase the torment. For their *drink*, puddle, standing water, or long kept is disallow'd. After noon, when stirr'd, they drink most. It is strange, that at Zant, about the season when the Etesia wind use to blow, the Goats stand gaping toward the North, and that serves them without drinking.

The Goat is very lustful; for they at seven months old, and while they suck, begin to couple, and with greater heat then sheep. The yearlings couple three or four times; if presently after a great rain falls, it causes abortion. They go five months; and bring, for most part, but one at once; sometimes two, three, four. In good aire, and well fed, they bear twice a year. It continues eight years. *Ariftole* faith, all their life long, and that they bring twins, if the Sire and Dam be of a lusty kind. In the third year it fails. Fatteneff makes them barren. The meetest coupling time is the Winter, or Solstice. They conceive in November, and bring forth in March when the shrubs begin to swell. Some use one Hee for ten females, some to fifteen, some to twenty. Rubbing their genitals with much salt and nitre, and anointing them with peper and nettle-berries, makes them lusty. About their venery and coupling, read *Ariftole* his History of four-footed-beasts. They are *lovers* of sheep, the Tiger, the Sargus, with the Poley and Fringo. Offer a kid to a Tiger to eat, he will fast two dayes after, the third day he will desire some other food; if he have it not, he digs a hole; yet he spares the kid, as if it were his own kinde, faith *Plutarch*. The fish Sargus delights in their very shadow, and loves to touch it while they stand on the shore, but is by nature disabled from leaping ashore. The Pulegium, or Poley, being tasted by the Goat, makes them bleed, whence some Greeks call it *Blechon*. If a Shee-goat crop an *Fringo* stalk, and carry it in her mouth, the whole herd shall straight leave their pasture, and as astonish'd at a new sight, shall not give over gazing till the Goat-herd take away the stalk. They hold

enimty with the Wolfe, Pard, Elephant, the Goat sucking-bird; they hate mans spittle, hony, and the Evonymus, the Vine, &c. For the Wolfe devours them, the Pard seizes them, the Elephant terrifies them, the Caprimulgus sucks them so, that the udder mortifies, and the Shee-goat turns blind upon it. *Alban* faith, they avoid mans spittle, Hony taken in, weakens them; the leaf, or fruit of the Evonymus were but tasted by them, kills them, unless they purge it out again by Anochus. If they drink water, wherein Rose-tree-leaves are steeped, they dy. Savine is also payson to them. A young sprouting Olive-tree will not bear, if a Goat but lick it. The lung rotted, prevents drunkenness. If they eat Conyza, they dy with thirst. The herb *Ægolethrum* in Lycia, is their bane, whence it hath the name Goat-bane. Their voice is a kind of muttering, or murmuring; whence *Homer* calls them *Mekades*. In Latine, they and sheep are said, *balare*, to bleat. The Hees are said *Phrimassin*, to grumble. *Varinus* faith, they cry *Ena*, ena. They are ever stirring, and swift, and nimble. *Varro* faith (*R. R. l. 2. c. 3.*) that wild-Goats will frisk away from a stone above sixty foot. They can better away with cold, then sultry heat; especially the breeders, that conceive in deep winter. They love woody, furzy, shrubby places much better then plain pasture-ground, or meadow, and thrive best on clifty, shadowy land. They hang so strangely on cliffs, and rocks, that they who view them from beneath, would verily believe they were falling; whence the rocks are called *Agripipes*, and the flock *Atipollon*, from their looseness, and clambering. They skip, and frisk wantonly about near brinkes of rivers, browsing on the banks. Authours are not agreed about the quality of their flesh. *Hippocrates* holds it raw, windy in the stomach, begetting crudities and belchings; but more harmlesse in Summer, their feed being better. At the falling of the leaf, it is most unwholesome. In Winter it breeds somewhat better blood. Some affirm, that thought it be rank, it nourishes and strengthens much. *Cleitomachus* of Carthage, a follower of the new Academie, faith, that a wrefler of Thebes outwent all of that age in strength, because kid, or goat-flesh was his diet, and that the toughest, and hardest of digestions, with eating whereof, his sweet was rank and rammish. *Homer*, in *Achillis* his entertaining of *Agamemnon* his Ambassadors, shews it to be soldiers diet. The milk is as moderate as most kinde's, except womens breast-milk. Yet is very different according to their age, feed, season of the year, and length of time after they bring forth their young, without hony it is dangerous food, curdling in the stomach. And it troubles the belly a little, unless eaten with scammony and other things. In some parts of the East, those that are weaned at three months, are wont to be fed with it.

The cheefe follows the nature of the milke. But hee-goats flesh is worst of all to dresse, breed-

ding ill blood, and is most corrupt, and offensive at coupling time. And yet it hath been a dish at a feast in Antiphanes, as bad and rank as it is. The testicles and liver also are much condemned. About *kid*, writers are not agreed: It was a delicate with the Patriarches under the old Testament. And Afræus the Poet calls it good juicy nourishment. And Platina after Galen, cries it up for the best household fare, easily digested, as having little dros in it, nourishing and breeding well tempered blood. But Bruterius cries it downe, because shee-goats are feverish, and therefore the kid cannot but be unwholesome. Yet Jul. Alex. confessing it indeed to be hot, yet the tenderies of the kids age is an ally to the hot and dry quality of the dam, and especially if the kid suck yet, not so much for the age, as the nourishment, which takes of from the heat, and makes tender, and juicy. Heathen also of old made it a messe in their feasts, seasoning it with *Lafer*, and other herbs. The blood made into a dish, was called *Sanguiculus* or bleeding; which the Laconians call *Atlas Xonnos*, or black-meat; and Pollux *Amatan*, blood-meat. Apvicius will tell you how to dresse the liver and lungs. The use of this creature in medicine is great, Pliny speaks of a thousand medicines to be fetch'd from them. Democritus magnifies that is borne alone. The Magitians prescribed goats flesh roasted against a mans carcase burning, against the falling sickness. Hee-goats flesh sod in water, breaks impostumes, and divers ulcers. The Porridge drives away Spanish flies. Drusus the Tribune of the people is said to have drunke goats blood, when hee with wanes and envy accused Q. Cepio of poisoning him. The same washes out spots. And fried, it stops the pain in the bowells, and the flux of the belly, as Galen and Dioscorides relates. Hee-goats blood soon ripens, make it hot, mingled with somewhat waxy, it cures the gout, helps ill-eyes, that of use with dierecally herbs, dried to powder, and taken with partly in wine, is very good against the stone. See in Aldrovand how and when it must be gathered. Some call this medicine *Gods band*. Authours of great repute (as Scaliger and Ioubert, &c.) say that goats blood can soften and dissolve the Adamants glass heated therein, and in juyce, may be made as soft and yielding as wax, or clay, and wrought into any shape; but dip in water, it shall return to its former firmnes. This is a secret of Geberus, Albertus, and an ingenious Bituricenian glassmaker, which when hee was near death, hee freely revealed to Ant. Mizoaldus, as himself relates. The same mixt with vinegar, is good against vomiting, and hauking, and spitting. The *mley* is good for them that have been bitten, in right gut, or the colon, because it soon congeals. It is very loosening taken with melanthins and brimstone, and takes away morrow and spots, and itch: With goos greafe, deers marrow, rosin and chalk, it closes chapped lips. If an oxes neck swell, it is a golden sovereign help, with soft pitch, and ox-marrow, and goat-

fewer, and old oyl, of each an equal portion, and unsod. With chalk it scatters swellings; with wax it stops spreading of ulcers, with pitch and brimstone it is through healing; and with hony and juyce of bramble it stops the running of the reines.

The *fat* of it self alone helps the sting of the green Spanish fly. Magitians commend it against the falling sickness, with bulls gall, boild in equal portions, and put up in little gallbags, it must not touch the ground, (for looth) and is to be drunk out of water at doore. The same with Pissana, or barely unhusked boyled, is good for the colique. Goats-fat boyled with barley, rhoe and cheefe, they give for the bloody flux, and taken in with juyce of barely unhusked. And helps much against diseases in the bowells, sput in cold water. It is also good against the droply. Those of the Canary Islands anoint their flesh with goat-sewer, and juyce of certain herbs, to thicken their skins the better to endure cold; because they go naked. It is used also against the gout, with shee-goats dung, and safran, and mustard, with Ivy licks bruised, or the flower of wild-cucumber. The same is an ingredient into Pomatum, good for chapped lips. The marrow next to deers and calves marrow, is commended. The liver roasted, and layd with oyl of mirrhe on the navell, helps the cholique, and is better then the same boild with new wine, and drunk. The same is good for Nyctalopia, and against the falling sickness, and for convulsions. It is also commended against the biting of a mad dog, and layd on, it takes away the feare of water, they say, which the bitten, dread. Hippocrates prescribes sheeps, or goats liver buried in embers, to a woman in child-birth, sweld, to be eaten for four dayes, and old wine to be drunk therewith. The gall yields many medicines. It helps against venome from a wild Weezel; with allom ashes it removes the itch; with fullers earth and vinegar it helps scurf, so that the hairs by degrees dry. With cheefe and brimstone it takes away morrow, with sponge-ashes thickened as hony. It scatters swelling, if often touched therewith at first rising. Layd on the eybrows, it takes away hair. To say nothing of the squincy, and eare-diseases. Lastly, smear your beds or walls with goats or bulls gall, steeped in keen-vinegar, you shall not be troubled with wall, or bedsted-lice. The spleen fresh taken out of the beast, and laid on mans spleen, in a few dayes strangely removes the spleenative pains, if you after hang it up in the smok, and there dry it. The head, with hair and all boyled, and pounded, strengthens the bowels. The brain dropt through a gold-ring into Infants, afore they have ever suck'd, the Magitians prescribe against falling-sickness, and all other Infants-griefs. With hony, it heals carbuncles. And scull water poured out of a goats palate; and what ever it eats, if mixt with hony and salt, destroys lice, if you rub the head & body with it in whay, and is a remedy against belly ache. The ashes of the *skin* smeared on with oyl, ridz strangely the

the kibe-heel. Shaving thereof, pounded with pumice, and mingled with vinegar, helps the Mazels. Bind a womans paps with a thong of goats-lether, and it will stop excessive rheums out of her nostrils. The hair burnt, heals all fluxes; and burnt with pitch, and vinegar, and put into the nostrils, stanches bleeding. When burning, it chafes Serpents away. The horn burnt, mixt with meal, laid on, mends scurfie, and scald-heads. Pieces of it scorched in the flame, with vinegar, are of good use against *S. Antonius* fire. Laid under a weak mans head, it causes sleep. Shave, or burn it, and mingle it with goats-gall, and myrrhe, and rub the arm-pits, it takes away the rank-smell. It helps against the Epilepsy, and the sent of it roweth out of a Lethargy, or dead-sleep. And burnt, if you rub the teeth therewith, it makes them clean and white. The *horn burnt*, it drives away Serpents; and the ashes smeared on with vinegar, helps baldness, and shedding of hair.

Palladius.

Pliny.
H.N.I.24.
cap.7.Sextus
Empir.

Goats-milke also is many wayes medicinable. *Demetrius* to my knowledge (saith *Pliny*) caused *Confidia*, *M. Servilius* the Consuls daughter, who could not bear strong physick, to use goats-milke, which sustained her long in her weaknesse. The goats were fed with Mastix-trees. There is a healing vertue in it. A draught of it with uva taminia grape, cures a Serpents bite. That which is first milke, lessens the fits of a quartan ague, whether eaten or drunk. Some Magi give swallows-dung, a dram out of goats, or sheeps-milke, or sweet wine, three measures afore the fit. Annoint the gums therewith, and the teeth are bred with more ease. Drunk with salt and hony, it loosens the belly; it is given against the falling sicknesse, palsy, Melancholy, leprosie, &c. Hot in barley-meal like pulse, it is given against the pain in the bowels. It cures the spleen, after two dayes fasting; the third day the goats being fed with Ivy, if it be drunk three dayes without any other food.

The *cheefe* being fresh, heals bites; being dry, with vinegar and hony, it cleses wounds; soft, and kneaded with hony, and laid on, and covered with wollen or linnen, it speedily helps bruises, &c. newly curdled, laid on, it helps sore eyes. If a woman hath eaten what goes against stomack, so that her belly ake, and she be feverish, *Hippocrates* prescribes a fist part of white Peplum, and half a cheenix, and as much nettle-feed, and halfe an pound of goats-cheefe shaved, mixt with old wine, and supped up. And if in the womb any thing be putrified, or blood, or corruption come forth, he prescribes goats-cheefe tosted, or scraped, alone, or with as much barley-meal, and taken in with wine fasting. As for the *curd*, a dram out of wine is good against the bite of the *Pieterman*, and other Sea-fishes: It is drunk also for fluxes, and taken against curdled-milke. A third part drunk out with vinegar, is good against rank excess of blood; the bignesse of a bean, steeped in myrtle-wine, taken fasting, eases the

collick. It is good against the lask. The *pisse* Hippoc. drunk with Sea-Aquin vinegar, helps against the biting of Serpents, and breaks impostumes where ever they are; poured into the ears, it helps the pulling of the sinews. The Carthaginian shepherds burn the crown veins of their children of four years old with unwashed wool, and some the temple-veins to prevent rheums: If they faint under the pain, they sprinkle goats-pisse on them, and fetch them again. The same drunken two cups a day with spicknard, is good against the water under the skin, drawing it away by urine. *Sextus* thinks it helps women in their months. Their dung is of frequent use, *Spartan* the Greeks call it, it is of a digestive and eage property, softning the hardest swellings, not only of the spleen, but also of other parts. Being burnt, it is thinner, but not stronger. Given in vinegar, it cures the vipers bite, in wine with frankincense, female-issues. Ty it on a cloath, it stills children, especially girles. They daub it on parts out of joynt. Sod in vinegar, it disperses throat, and other swellings; And warmed and smeared on, it cures spreading ulcers. Prepared with hony, and laid on, it heals cancers, and belly carbuncles, and disperses them. Bruised to powder, and mixt with vinegar, and applied to the fore-head, it takes away the migrain: It cures burns, and leaves no scar: kneaded with vinegar to the thicknes of hony, it loosens contracted joynts, and removes tremblings with barley-meal and vinegar, especial in tough and rustical bodies, it helps the scitica. Pills thereof are a remedy for the months and second birth. Adde here to, that in Plague-time, if you keep a Goat at home, his breath and smell is good against infection. Besides all this, of the Goats-hair are made fives, of the skin garments, shoes, coverlids, bottles, boots, bellows, sails, paper, and whips. *Piribus*, of the horns made him a crest. The Locrians (the Ozoli) wear sheeps and goat-skins, and live among flocks of goats. The Sardi, and Getuli had no other cloaths. In R. R. I. Cypris they make Chamlets of goats-hair; and to that purpose, near the rivers Betolis, and Idia in Armenia the lesse they keep, and shear a multitude of goats yearly. The Turks also at Ancyra, the head-City of Capadocia, make their choicest watered Ruffes thereof, and also their tapestry. The paper or parchment, I speak of, were first found out at the Troian Pergamus, and thence obtain the name.

We read little of their differences. The Egyptian bring five at a birth, because they drink the fat fruitful water of the river Nile. In Phrigia there are four horned goats, as *Scaliger* relates, with long hair, and snow-white; in the Weweries they shear not, but pluck the hair out. The Egyptians say, that when the Dog-starre rises, the goats turn ever Eastward, and their looking that way, is a sure signe of the revolutions of that Star. In the Northern-coasts they are great bodied, thick thighed, full, and short shouldered, bending eared,

small headed, thick, long and bright necked, high and broad horned. They are almost all white. In Winter they live on Pine-bark, Moss, and Poplar-boughs. The skins are carried by great shipfuls into Germany, and yield great gain. The Caspian goats are whitest, not horned, and as big as Horses: So soft is their hair, that it may compare with Milesian wool; so that the Caspian Priests, and the richest make it their wear. In Cephalonia the Goats drink not daily, but gape, and take in the wind. *Theophrastus* therefore saith, they drink not in six months. In Cilicia, and about the Syrtis they are as shorn. At Damascus they have long eares, manifold teats, and are very fruitful. The owners carry forty or fifty up and down to sell their milke; and they will milk them where you please, in your dining-room, though it be three stories high, afore your eyes in tin vessels. At Narbon they have broad and long ears. In Illyria they are not cloven-footed; they bring sometimes three, four or five at a birth, and give a gallon and a half of milke. The same is said of the Indian, near the City Tarnassuri; and of the African at the Promontory of the green-head. *Xaverius* the Jesuit testifies, that he hath seen at Ambonau Hee-goat suckling little kids, in that corrupted History of *Christ* and *Peter*, which the Authour wrote in the Persian language. He had but one udder, and gave a great top of milke daily. The Mambon Shee-goat in the Region of Damiat, they may ride with saddle and bridle, and other Horse-furniture: the ears dangle to the ground, the horns hang downward, and turn up again under the mouth. Pharos, an Island in the Egean-Sea, breeds Goats coloured like the Deer, and greater by much; with an horn twelve handfull long, straight, having but on knag reaching right forth. In Sardinia, their skins are hot in winter, and cold in summer; like the Mus-moos. And some are swifter then any beast. Among the Monsters we give hereafter the figure of one with three horns.

Hercules.

Ant.
Mith.
Ellen.
H.N.I.3.
25.
Pia.Gether.
Alex.

Hippoc.

Varro.

In R. R. I.
c.3.Olivier.
I.3.c.13.
Mithoc.
Ellen.Scaliger.
Mithoc.
Ellen.
Mithoc.
Ellen.

Plutarch.

Plutarch.
Mithoc.
Ellen.

ARTICLE V.

Of the wild-Goats in generall.

WE are now to treat of wild-Goats both generally, and specially with many names, whereof we meet among the Greeks; as *Aix agrios*, Wild-Goat. These have the wit with Dictany, to draw arrows out of their bodies, those namely that live in Candy, and on the hill Ida. Aristotle denies there are any in Africa, Virgil affirms it; who takes the wild for those that are liker tame; which Varro saith are a breed of the tamer. Wee call them Roes, *Agagros*; Oppian takes for a peculiar kind, called *Cameozas* about Trent. The *Agokeros*, or Capricorn, is a wild wood-goat, of a severall kind; in Suidas *Dorkas*; Hermolaus conceives

to be a divers kind, but it seems to be but another name. Scaliger takes *Dorkas* for a kid; *Dorkas* for a Roe. However it seems to have the name from sharp-sightedness; for it hath a moisture within the bowelles that helps the sight. The name is used in the Canticles. The *Dorkas* is short-tayled. Proches Gaza, turns a Doe, having the name from *Proisphai*; the swiftnes. *Proos*, from fearfulness, the Epithite that Homer gives the Hare. It is as swift as a whirlewind; yellow haired, white tayled, the eyes white and blew, the eares stuck with long hair; it swims very swiftly, and with the feet can stem a streame; it delights in lakes, where it seeks repast among the bulrushes. The Nebros some make a faw; some a kind of goat: Solinus a Doe. *Kglus* is a Scythian wild-goat, of bigges between a Deer and a Ram, of a bright body, very swift, drinking with the nostrils, and holds the water there many dayes, and can make long shift in dry pasture: With the Latines Capra, is a Rodi Rupicapra, a wild-goat, living among rocky places, as the name gives it. They love to clime high, and to live on the loftiest mountains, where your eye can hardly reach them: yet if they be pursued by beast, or man, it can cast it self headlong from the steepest crags, and yet help themselves so with their horns, that they catch no harme. They fall out often about the females in coupling time: By consent of all they excell the tame in goodness of tast, favourines, and nourishment, in delicacy of temper, easines of digestion, and in paucity of excrements; yet is their flesh somewhat drier; therefore the Arabes invented the boyling them in oyl, to make them juicier. Yet some thinke that what is sod in oyl becomes dry, and looses the glutinouse, as *Plathuron*, Galen. and *Kawron*. As for their use in physick, wild Goats-flesh is good food for those who have the bloody flux: The liver, either unrosted, or beaten to powder helps the cholique. The steame thereof boyled in salt water, helps thick-fighted eyes: Burnt, and sprinkled on it, stanches blood, especially if you suof up the powder. The blood with sea-palme takes away the hair. It helps to an easing by stool. The gall is sovereign against venomous bites. The same helps against blood-hoten and dim eyes, and against ruggednes of the cheeks and eye-lids, with conserve of roses, or bruised with juice of leeks, and dropped warm into the nostrils, it takes away the tickling of the head; with Athenian hony, it eases the pain of the jaws, and cures the exulceration of the pizzle. The dung dried, stamped, and sifted, and taken in a cup of hypocras, takes away the yellow Jaundice.

Albin.
Aldrov.
Oppian.
Trask.
Ellen.Marcel.
Dioleor.Strabo.
Geogr.

Galen.

Pliny.

ARTICLE VI.

Of the wild-Goats in particular.

POINT I.

Of the Roe-Deer, Fallow-Deer, Bucks, and Doe.

Diocor.
Hyanth.
Pliny.
Oppian.
Aldrovand.
Hist.

Scalig.
Reland, ob.
l. 1. c. 54.

scil.

THe kinds of wild-Goats are the Rupicapra, &c. The Rupicapra, or Dorcos, in Greek, *Agastros*, or *Agagros*, that is Wild-goat. It is of the same greatness with the shaggy goat, only a little taller, and in shape like the tall wild-beasts. *Belonius* takes it for a Buck. The colour is between dark and red; it inclines more to the red in Summer than in Winter, to the dusky. But *Scaliger* faith, it is in Summer yellowish, in Winter ash-colour. *Gesner* saw one black and white. Some are all white, but few. It is red-eyed. The ears are longer than the Rams, and carnation coloured, and on either side a streak above the eyes from the root of the horns, straight to the end of the mouth, and ending in the upper-lip. The fore-head marked with a kind of star. The upper part of the tail hairy, black and round, and as long as that of a Buck. The horns blackish, nine or ten fingers long, rough with knotty ringlets; none in the hooked part, which is smooth, and sharp like a hook. Almost parallel, rising in equal spaces; firm, only at beginning, only a thumb's length, hollow, and rounder than those of the tame. Some say they can, as we see Goats, scratch their backs with them. It is note-worthy what mischief they do themselves by that scratching; they are thought to delight in the tickling, that they fasten the horn-tip in their skin, that they cannot pluck it back again; so that they through anguish will cast themselves from the highest cliffs, and taken, they dy of pain, or famish to death. They haunt rocky mountains, yet not the tops as the Ibex, nor leap they high, or far; they come down sometime to the lower Alps. They meet off about some sandy rocks, and thence they lick sand, as Goats do salt, whereby they rub off their sluggish flegme, and sharpen their stomach. When they are hardly chased, they climb so high, that no dogs can come at them: Then when they see the hunters creep on all four to pursue them, they frisk from stone to stone, and make to the mountain tops, where no man can follow them, there they hold, and hang by the horns till they are shot with guns, or driven headlong from their hold, or famish to death. Presently after *S. James* time they betake themselves to the colder cliffs, to inure themselves by degrees to cold. Being taken, they are sometimes made tame. Of the skins are made gloves for horse-men. When they striv to find out new pastures, the next rock they look wishly on, putting forth a foot, they

try often whether it be fast, or loose, and slippery. It is pleasant, faith *Scaliger*, to see how in my uncle *Boniface* his hall, they that are kept tame will leap at the hangings, wherein the like wild are woven. As for their use, their flesh is somewhat dry, and a breeder of melancholy, and is of a wild fent. Hunters drink the blood afresh, springing out for a present help for the swimming of the head. A cup of the fewest mixt with the milk, it is said to cure a deep consumption. We represent here a double figure, of the Rupicapra, or wild and mountain-Goats. The Buck is twofold; one that the ancients write of, whereof here; the other, the common one that the Moderns write of, called *Platykeros*, or broad-horned; men (it may be) by *Gaza*, who translates *Proks*, (in *Aristotle*) *Dama*, or Buck. *Pliny* reckons it among the wild outlandish goats. It may be it is that that *Diocor.* calls *Nebros*. It is like a Goat, and coloured like the Doe. *Ovid* calls it a Doe with a yellow back. They are famous for their fearfulness; therefore they are feldome tamed. They catch hold of Craggs with their horns, as if they were hooks; nor do they any other ways climb the inaccessible ridges of mountains.

Pliny.

Nican.

Pliny.

POINT II.

Of the Ibex.

D*Isidorus* in his Chapter of Curdles makes no mention of this Goat, and scarce any other of the Ancients, except *Homer*, who calls it *Ixalon Agia*. But the learned wits, as with one mouth, that it is the same that the Germans call *Ston-Buck*. *Pliny* comprizes the whole story in short, saying, that among the wild-goats are the Ibices on the Alps, of a wonderful swiftness, though their heads by burdened with huge horns, wherewith they defend, and poize themselves; and can safely tumble, and frisks they lift from cliff to cliff, most nimbly. It is a gallant creature, and great-bodied, almost shaped like an Hart, but not so great; slender thighed, and small-headed, the skin dark-coloured; growing old, they wax greys, and have a black list along the back; clear, and faired; cloven, and sharp-hoofed: The female is less than the male, and not so dusky of colour. He is bigger than the shaggy goat; not unlike the Rupicapra. The hee hath along black beard, that happens to no other beast, so *Belonius* writes, haired like the Hart; unless happily to the Hippelaphus: His vast massy horns bend toward his back, sharp, and knotty, and the more, the older he grows; for they wax yearly; till that they grow to about twenty knots in the old ones: Both horns, when grown to their utmost, are well near sixteen or eighteen pound weight. *Belonius* had seen some horns four cubits long; they have as many cross-beams, as they are years old. Fleet they are; nor is their any rock so high,

Aldrov.
Hist. Be.
l. 12.
c. 24.
25.

Pliny.

Scalig.
Gessner.
Hist.

Belonius.
l. 1. c. 11.

POINT III.

Of the Buff, the Bubalides, and the Pygargus, or Roe-Buck.

Aldrovand says c. 14. p. 303. that hee thought once that the Bubalus, or Buff, and the Bubalides, differed in former times in the shape; but hee confesseeth hee was mistaken. For the nature, hee is much taken with old home, and bring him into good pasture, hee will returne; when frighted hee thinks himself safe, if hee can hide his head, like the Ostrich. Hee shuns all fierce and quarrellsome beasts. The blood is somewhat thicker than that of the Hare and Hart; thickening well near as much as the sheep. The Pygargus (as *Pliny* also faith) is a beast always given to be lonely, and keeps in the woods.

POINT IV.

Of the Caprea, or Roe, in Pliny, the Goat half Wild and half tame, and the common Buck, or Doe.

Plinies Caprea, or Roe, is no other then our Capreolus, or Kid; which the Germans call *Reh*, not unlike the Hart in colour, but far smaller, scarce so great as the Goat. The male his horns commonly have six branches. There was one had 17 horns, whose picture the Duke of Bavaria sent to Aldrovand. The horns are branched indeed, but small, and they call them. Sharp-tighted they are; small voyced: they shed not their teeth; spotted; some spots are white. In time they change colour, and the spots become not so lightly. Many are taken in the Helvetian Alps; yet they love lower places then other Wild-goats. The Shee, if her Male be taken, seeks another, bringing him to her old place; and if the Shee be taken, the Hee seeks another. Their horns they either know not how to use, or dare not. They love to feed, where Partidges haunt. They run only when the wind blows, to refresh themselves in their toy. They are as well tasted as the Boor, and their flesh sooner digested. Of this sort are those in Brasile; two kinds are of them, *Cagua-cuete*, and *Cagua-capara*: Almost like our hee-goats. The head about seven fingers long, great and black-eyed, large and wide nostrild; the mouth black, the skin thinning; the ears four fingers long, two and an half broad; their veins easily seen; the neck round and smoother haired then the rest of the body; five fingers and a half long. The body but two feet from the neck to the rump. The tayl short, as of other Goats. The forethighs a foot, the hinder a foot and half long; the hoof cloven and black; and on those two other lesser ones. Smooth-haired, red on the thighs and feet, dark on the neck and head, white under the throat, and the bottom of the

Belonius.
Hist.
Alex.

Aldrov.
Pin.
Bacon.

neck, the tayl white below the eares whit within, dusky without, and almost hairles; the mouth a litle longer below then above. Hee chews the cud, and is easily tamed: After one or two months old hee becomes delicately white-spotted, which in time weare out. The Brafle Cuguacuapara is a horned Hee-goat, coloured as the former, but somewhat lesse; the horns have three shoots on them, the lowest is longest, and parted at top; the main horn is a thumb thick, and eight or nine Rhineland fingers long. The *Strephacrote*, or Roe-buck, is described by Aldrovand out of Pliny, and reckoned among the wild-goats, that are outlandish. The picture of the Cretian one is taken out of Bellonius.

The common Buck resembles in shape the Hart, is greater then the Roe, but differs in colour. The Buck is smaller-headed then the Hart; hee casts his head every year, the horns stick forward out, and not as others use: The ridge of the back is blinking yellow, and hath a black list all along. The taile reaches to the hams, as a calves. The fides sometimes are checkered with white spots, that with age wear away. Sometimes the Does are all white, that you should take them for goats, but that the hair is short. Their horns are in many places shewen of a vast greatnesse and beamy, as at the ascent and steps of the Ambolian fort. The flesh very like the Kids; the blood of a deep black. Sometimes he is fat as a Wether. The dung prepared with oyl of mirrhe, is said to make hair come thick.

POINT V.

Of the Goat of Muskus, or Musk-Cat.

Aldro. H.
Bacon.

THE Arabians only have written of him among the old Writers. The later Greeks, as *Etius*, and *Paulus Aegineta*, have borrowed what they have from them. Call him Wild, or Goat, or Indian, or out-landish, or eastern Gazella, or Goat of Moschus, it skills not much. Some call him Moschus from Musk. *S. Hierome* reckons his skin for the most delicate of perfumes, and calls him an outlandish Moule. *Gesner* saith, the Musk lies in a bag in him. Writers differ in describing him, and some that have seen him, they say: But all agree, that he is a kind of Goat. Men report that he feeds all on sweet herbs, especially Nard; and that the sweet musk is a blood gathered about the navil. They are so swift, that they are seldom taken alive. He bites at his pursuers with a fury. Take his longer teeth out, and you may tame him. In the Province Thebet they hunt them with dogs. Some say, they are found in Persia, Africa, Egypt. The perfume we call musk; perhaps because of old they use the mosse of the Cedars and white Poplar, &c. in composition of perfumes and thickning oymments. I have seen the like growing on beasts. The bags in

this Gazella are full of musk; He is of a middle nature, between a Hee-goat and a Calfe, and yellowish, which the Greeks call *Moschus*; *Moschus*. whence musk may have the name, or from the likeness the bag bears with the small cups on Ovia-top where the feed is, which the Gr. call *Moschai*; or as Etimologists will have it, because it lies *En Mesu*, the middle, or the middle: Not to say it comes from the Verb *Mosco*, because all desire it; or from *Oxos*, smelling, senting, of the Original writers differ. And as much about the choofing of it. *Platarius* likes not the black, but that that is coloured like Spikenard. *Brasavellus* holds that the blackish hath the best sent, that brought out of Cataia. Some prefer Tumbascin musk, because of the abundance of pasture there, which is ripe in the bag, and better then that that is hanged up in the aire: The unripe, though in the beast, smells not well. The Antebian musk is better then the Abensin, then the Jurgian; next the Indian by the Sea-coasts.

That of Elluchasis among the Tacuini is thin, and the bag thin: The Gergerian quite contrary, and not so aromatical. That of Charua is a middle fort; The Salmindian, not so good. For the proof of Musk, see *Aldrovand*. It is many wayes adulterated, especially the black, and reddish; by mixture of a little goats-blood a little roasted, and stamped, three of four parts for one musk: But roasted bread makes it moulder; the goats-blood broken is bright, and clear within. The Saracens vent it off, bag and all, but sophisticated. Some falsifie it with a kids-liver dried, and birds muting. Some increase it with Angelica-root. It will loose the sent, if you adde any sweet thing to it. It is best kept in a thick glasse-bottle, waxed over. It recovers the lost sent, if you hang it in an open pot in a house of office.

For the use of Musk, Authours differ about the temper of it. *Averrois* holds it hot, and dry in the end of the second degree; *Sethus* in the third. All confesse it to be a thin substance. It drawes out blood, put to the nose; and opens the vessels of the body. It is besides used to strengthen, and against trembling, fainting, wind; to purge the head in sweet-balls, and wash-balls; in censings, in pomanders, and sweet-oymments. Yet it is ill for the mother to some women; as the Venetian, and Northern women.

POINT VI.

Of the Bezoar, or the Pazaharrica-Goat.

Men write diversly in the describing of the Bezoarican-Goat. *Bellonius* seems to deny there is any such beast, while he relates out of *Theophrastus* the Arabian, that that they call the Bezoar-stone, is taken out of the veins. The Arabs fetch it from the Harts. *Monardes* from the testimony of eye-witnesses, reports it to be as great as the Hart, and resembling him. *Bontius* saith, that he is

Bontius
Mal.

Tibetia

Monardes

Aldrovand

Alex.
Bened.
Gulcher.

Gazian

Monardes

Aldrovand

Scrib.
E. 1. 9.
F. 2.

he is shaped like our goats of Europa, except that they have more upright and longer horns, and that some of them are partly coloured, as Tigers, and goodly to look on; two whereof are to be seen in the fort in Batavia. The greater, or lesser the stone is, that they carry the nimble, or heavier they go; which the wily Armenians, and Persians well know. They feed on an herb like Saffran; the eating whereof breeds that stone. Whence it comes to passe, that because an Isle between Cormandel, and Ceylon, called by the Portugals, *Isle de Vacas*, (or of Cows,) is sometimes overflowen, that the goats must be transported thence to save them, they being deprived of that herb, breed not that stone; and when the waters are down, and they are brought back together, they yield the Bezoar-stone again, which is as troublesome to them, as to us the stone is in the bladders or reins. Whence we may gather, how vain their relations are that tell us that it is bred in their bowels, or reins, or the gall. Some call it *Pasani*, some *Balsaar*, some *Pazaher*, that is, an antidote against poyson. It is bred especially in Persia in Stabanon, three dayes journey beyond Lara, where the Persian Kings are watchful to challenge for themselves all the stones that exceed a certain weight. They are of several shapes, and kinds; some much costlier then others, and of greater vertue, and efficacy. There are counterfeiters made. *Monardes*, from the relation of *Guido de Lavaretus*, writes, the right ones are made up of kind of lates, or barks folded within one another, very bright and shining, as if they were polished; having within a dust, or a chaffe. *Bontius* thinks that Genuine, that rubed on a piece of chalk, shews a light-red; cast into a bason full of water, and left there three hours together, looses nothing of the weight. When the counterfeit becomes hevier, or lighter taken out of water; and rubed with chalk, splits. Much is written by many of the vertues thereof; that laid on any bare part of the body, it defends it against poyson: That the powder cures bites, sprinkled on the bitten place; That cast on wild beasts, it benums them, and kills vipers with any liquor: That all receipts taken against poyson, and malignant Fevers are vain, unless Bezoar be also used. *Monardes* gives examples of diverse hereby rescued out of the very jaws of death. It helps melancholy, quartons, fainting fits, epilepsies, giddinesse, stone, worms, and what not: But it is observed to be more helpful to women then men. Some in India dream that it makes them young again. *Monardes* hath a whole tract about it: But *Bontius* writes, that he findes by a thousand experiments, that the vertue thereof is not so great. He saith, that the stones called *pazaher* bred in the stomack of the Simior are round, and above a finger long, and are counted the best.

Neither may be referred the Vicuna, and Taruga. The Vicuna is a swift beast of Peru. It is hornlesse, else like a wild goat. Neither is

that any hinderance, that he wants horns; since there are dogs that are said to have horns, when most have none. He delights in mountainous and rocky places: She loves cold and deserts: She seems to be refreshed with snow, and frosts: She loves company, and the Herd. She runs from all men she meets, putting her young ones afore, being carefull of them. She is taken by a swift chafe; to which end three thousand Barbarians compass a mountain, and by degrees make all the wild here together, sometimes more then three hundred; they send the females after the young ones; They are taken also, when they come to a convenient space, and toyles of cord, and lead laid for them. They shear them to make coverlids; their wool is fine as silke, of a lasting colour; being natural, it needs no dye. In hot weather it refreshes, helping the inflammation of the reins: wherefore they stuffe therewith ticks for beds. It is said to ease the Gout. The flesh hath no good relish; yet it is an Indian dainty. And a piece of it new killed, and laid on the eye, removes suddenly the smart. They breed the Bezoar in the bowels, next to the eastern Vicuna is the Tarcua, of that kind, but swifter, and greater, and deeper colour; of soft and dangling ears, not delighting in company, she wanders among rocks alone. In these is the Bezoar-stone found both of greater vertue, and bulk.

POINT VII.

Of the Scythian Suhak, and the Goat with dangling eares.

OF the Scythian Suhak, see *Aldrovand*. *Strabo* 31. We owe to *Aristotle* the mention of the Goat with hanging-eares, a palm, and more broad, and reaching near the ground; Probably it is that in the print here following, which they call the Indian Goat, and the Syrian Mambriana. By the wool, hair, face, and horns, it seems to resemble a sheep rather then a Goat. The colour is white.

Aldrovand.
H. Bif.
c. 23.
Anst. H.
A. 1. 8.
c. 28.

POINT VIII.

Of the Oryx.

THREE sorts of creatures are by the Greeks termed Oryxes. One a water one, two land ones. Of the first *Strabo* writes treating of *Turdetania*, which some suppose to be the Sea-orke. Of the two latter kinds *Pliny*, and *Oppian* mention. The name *Oryx* comes from *To Orygion*, or digging, because, at new Moon it turns eastward, and digs up the earth with the fore-feet. For the shape, it is one-horned, and cloven-footed. It is of the kind of wild Goats. But of a contrary hayr, turning toward the head as it grows on the

Strabo.
Geog. 1. 3.
Aldro. H.
B. c. 24.
Piny.
To Orygion.

Plin. H.
N. l. ii.
cap. 46.
Arist. H.
A. l. c. c.
Pliny.

on the Ethiopian Bull. He is engendered in the driest parts of Africa, ever without drinke, and strongly usefull against thirst; for the Gerulian thieves hold out by a draught of wholesome liquor found in their bladders. Albertus saith that he is as big as a Hart, bearded, ufed to the deserts, and easily taken in a net. Herodotus makes him as great as an Ox; Nor have we any certainty of his shape. The horns are black, and to be seen in most libraries, like a sword blade at top, diverse, according to their age, both in length, breadth, and number of knobs. Wee give you here the images of two of them. But Aldrovand himself durst define, whether they are Indian Affes horns, or no. But, since the Ethiopians call Sil, used them for weapons against the Struthophagi, or Eltridge-eaters, and they are very hand, and beamy, long, sharp-pointed, and hollow, they seeme to belong to the Oryx. The Egyptians fain many things of him, that they know, when the Dog-star arises, and then cry out; that they gaze on the star, and adored it like a God; whether by a peculiar sympathy, or that they know cold weather is past, which they cannot well endure. He seems to despise the Sun, and Moon; they dung against the rising Sun, and never drinke. Columella, and Martial mention the Orus; but I believe it is not the same with this. The later calls him Cavage; the former reckons him among the beasts kept in warrens, or parks for food. Hee is said by Oppian, to be wild, a great foe to wild beasts, and milke white. So different are the relations about the Orus, which must be a double kind; one fearfull, the other fierce. Some in India are said to have four horns. Ambr. Parésus (T. l. i. c. 5.) mentions a wild beast in some Island of the Red-sea, called by the Arabs Kademotha; by the inhabitants called Parafoup; as great as a mule, and headed alike; haired like a Beare, but not so dark-coloured, but yellowish; footed like the Hart; having two lofty horns, but not beamed, akin to the Unicorns horn. The natives being bitten by any venomous beast, are cured forthwith by drinking the water, wherein the horn hath lien soaking certain dayes.

ARTICLE VII.

Of the Hart, or Deer.

Xigera,
Eleph.
Altro. H.
Bicul.
C. 27.

Varinus.
Dolcicut.

Pliny.

THE Latine name Cervus is taken from the Greek *Kerata*, horns. The Greeks give him very many names, as *Elaphos*, because of his nimbleness, or his delight to be about lakes, or waters; or because he drives away the serpent with the smell of his horn, who rubs it on purpose against a stone, to raise the sent; and *Beirix*, *Bredors*, &c. The Hinds first fawning, they call *Ptookus*, that is, *Procas*, the Calf; for Fawn *Nobras*, &c. The Deer, or Hart is cloven-footed, tong-hoofed, soft-haired, and hollow within, if you believe Junius, which makes him swim well. He is light-coloured, sandy reddish; yet there are white ones,

as Sertorius his Hind, which, as he perswaded the Spaniards, was propheticall. No beast carries greater horns: The Hind hath none ordinarily; though some have been seen horned by Maximilian the Emperor, and by Scaliger. The Fawn of a year old hath beginnings of horns budding, short and rough; The second year he is called a pricket, and hath plain horns, called spellers, or pipers; The third year he is a forell, his horns branching once; and fox increase to the fixtycar. (Wee say there are in a flages head the Burre, or round roll next the head; then the Beam, or main horn; then the Browantelieri; next above the Bezantelieri, next the roall, above the surroall top. In a Bucks head are Burre, Beam, Branch, Advancers, Palm, Spellers. The fourth year the Buck is a Sore; the fifth year, a Buck of the first head; the sixth, he is a Buck, or great Buck.) But the branching is very different. William Duke of Bavaria hath two, each horn hath one and twenty branches. Albertus speaks of eleven such in Germany.

Emilian saw in the Duke of Ferrara his store-houfe a Hart, little less than a Horse, and so branched as the German heads. At Antwerp is one with 15 branches. Other horns are hollow, except at top the Harts folled throughout, others cleave to the bone; the Antelope Harts sprout only out of the skin. No beast casts the horns so as hee. The horn is as firme, and hard as a stone; growing old, it is lighter, especially in the open air, and sometimes moylt and dry again. Gefner hath observed in a grown Hart, at top of the horn, two, three, or five branches, and the beame six fingers broad, beside the antlers and spellers below; and he hath marked between the brain-pain, and the horns, little bones, or double-bony knobs, about two fingers long, smooth; and the shorter, the older the Hart is. (Wee English divide the Deer into red, and fallow Deer; among the red, wee call the male a Stag; the fere, an Hind; the young, Calves; among the fallow Deer, wee call the he a Buck; the fere, a Doe; the young, Fawns.) And they all differ in hornes, and in some they are grown together. Gefner saith he hath seen a Stags-speller 9 inches; and of one of three years old, with the speller of 18 inches. Those wee have mentioned are smooth, white, not rugged. They cast their horns yearly at a certain time in the Spring. One hath been taken, in whose horn green Ivy grew. It is said, that if you gued them, their horns fade away. Their face is fleshy; the nose flat; the neck long; the nostrils fourefold, and with as many passages; their mustles slender, and weak; the ears as cut, and parted, as no other beasts have. They that are about Argemusa on the hill Elaphus, they have four teeth on each side, both below, grinders, and besides two other above; greater in the male, than the female, they bend all downward, and seeme bent: They have all live-worms in the head, bred under the tongue, in a hollow of a turning joynt that joynts the neck to the head; others as great bred in the flesh, at least 20

some have seen more, and fevered; though some have none. Some say Walps are bred within their eye-bone, and fly out thence. The blood is like water, having no string, but is curdled, as many have observed with Baldus Angelus. The eyes are great; the heart as great as us; to be in all timerous creatures. Divers write diversly of a stone in the corner of the eye, called Belzahart, or Bezaar. Scaliger denies it, that there is any stone there, till the Deere be an 100 years old; and then it begins to grow, and waxes harder than a horn, swelling out of the bones, and over the face; where it bunches out, it is round, and shining, yellow, and streaked with black so light, that it scarce abides the touch; you may see it withdrawn it self. Scribonius calls it, the eye-filth. Almost in all Deers hearts are found bones, the greater in the older, sometimes shaped like a cross; interfering. I have seen them, saith Iordanus, as big as a pigeons egg, and framed of plates, and, which is pleasant to see, break them, and you find a bone in the midst, like the other heart bones, about which those shalls clings, the heat of the heart ingenders them. They are found from the midst of August, to the middle of September. Brasavolus calls it a finew, or finewy gristle. Andernacus shews you how to find it, laying open the left side, and tracing the roots, and membrance of the artery, whereabout it lurks. The Deers tail is but little, like the Sea-calves; the thighs very slender. They have more bellies then one. The genital finewy like the Camells. The gut is so small, and brittle, that you may break it, and never crack the skin. Men say they have no gall, but the bowells are so bitter, that a dogge will not touch it, unless the Deere be very fat. Those of Achaia are thought to carry theirs in their tail, but liken the fourth part of the spleen, then the gall. The Doe is less then the Buck, a handsome beast, only hornlesse, sharp-fighted, of wondrous swiftnesse, shee hath four teats as the Cow. Galen speaking of the tunicles of a birth, and of veins, and arteries, which issuing out the womb, are fastened to it, affirm, that in all animals given to leaping, as Deere, and goats, the ends of the vessells are joynted with the matrixes, not only by thin skins, but by tough flesh, like a kind of fat; a token of admirable divine providence. The back of either sex is fat.

Arist. and Pliny write, that there are none found in Africa, but Virgil and modern authors say the contrary. Some write that in Apulia, they shew themselves like armies; and that Ferdinand King of Napels was deceived by them, and James Caldor, the wisest Prince of that age. In Barga, a Province of Cataja, they are numerous, and so tame, that they ride on them. In Batavia they have abounded all along, that tract of sand-hills, and valleys, laying between the Haghs-wood and Egmond. In Brittain, checkered have been white, and black ones. In the region of the Chichoriary in the new world, they are kept tame like

goats. Solinus writes, that there are none in Candy, except among the Cydoniatae. Yet Varinus mention Does in Achaia on that Isle, Bellonius said there are many there, there being no harmful creatures in Crete. They swim out of Syria to Cyprus, because there is plenty of pasture, that they fancy. In Elaphus an Asian-hill by Arginuffus, they are cloven-eared; and by the Hellepont. They are there tame by nature, saith Aurelius the Emperour. In Scotland the Deere are great, and so numerous, that at a soleme hunting 500, 800, sometimes a 1000 have been killed; some are 10 thumbs thick of fat. They abound also in a hill on the Islands, the Hebrides, which bears the name Cervus from the Deer. Xapita in America hath herds of them, as wee of Oxen; they breed at home, are fed near their houses, by day let out into the woods, at night they return to their fawns, are shut up in huts, and suffer themselves to be milked. In France about Fontainebleau they swarmed. In Florida there are tame, in Xapitum, and wilde, some as big as an ox, some lesse. In many parts of Germany, they are kept tame in dry ditches about their walls. In Helvetia they lessen dayly, inhabitants increasing, and woods decaying. In Hercynia they are blackish. Among the Diklappi, there are many herds of them. In Norway they are called Rhen, they are somewhat greater then ours. The Laplander use them in stead of beasts of carriage, they yoke them in a wagon, like a fiers-boat, whereon they bind a man fast by the legs; he holds the reins in his left hand; in his right he holds a staf to keep the wagon from overturning: Thus they can ride twenty miles a day; and they let the Deere loose, which returne to their owner, and usual stables of themselves. They are so lustfull, that they go the whole day a rutting, a whole month together, and are raging, and wast away with it, almost another month. They will fight for their Does, and Hinds; and the worsted Deere will attend, and serve the conqueror, if we beleve Albertus. The females being with fawn, they separte themselves from others, and keep by their males, they dig holes in lonely places, they smell rank like goats, their faces spotted with black; they live, till a found shew of rain fall, and then they return to their pasture. They gender in August and September. The same Bucks follow divers Does, and returne againe to the first. The tame are usually barren, unless they be from the very first brought up tame. They go with fawn eight monthis. They bring forth most part but one at once. The fawns grow apart. The Doe in fawning is cleared of a flegmaticke humour, otherwise the never purges. About fawning, and her posture, therein Pollux, and Gefner write contradictions. Authors write much of their long-livednesse. A Raven may live nine of our lives; Deer, that is, Stags, foure times as long. By that reckoning they should live 3600 years.

years. Pliny speaks of some, taken some hundreds of years after Alexander the Great his time, who had caused golden collars to be put about their neck, which were found covered with skin, and sunk in great fatness.

In the reign of Charles of France, who lived in the time of the Schisme, between Clement and Urban V. I. there was a Stag taken at Sylvaectus, on whose collar was inscribed in Latine letters; *Hoc me Caesar donavit*; Caesar bestowed this Stag, taken in Agathoches time, some ages after. It is said that a Hind of Augustus C. was taken many lustres of years after his reign, with this inscription on the collar; *Touch me not, I am Caesars*. Some guesse at their age by the number of the branches of their horns. Though Aristotle likes it not.

Authors give severall names to their voyces; as Glouciare, yonking; Virgill calls it braying, Wee give different names to the voyce of Bucks, Does, Fawns, Stags, Hinds, and their Calves. They are friends to the Quail, but hold lasting enmity with the Eagle, Vultur, Serpent, Dog, Tigre, wild beasts, Foxes, the Gew, and whiter-horn, and red feathers. The Quail sits oft on their back, and pick their hairs. The Eagle gathers a lump of dust, and sitting on their horns, shake it in their eyes, and strike them on the face with their wings. They fight with Serpents, search after them in their holes, and draw them out by the snuffing of their nostrils. The very smell of Harts-horn burnt, will drive away Serpents. In Libya, they make at Serpents, where ever they ly. If a Deer tread on Cactus, the Hartychike, and it pierce, their bones never be found after. Aspalathus kills them with the touch. They delight in covert, in wild woods, forests, chafes, where the soyl is fat. They love vineyards and lawns, and pastures in woods, where the Sun comes. The Buck leaving his pasture, hids him to the woodside, but the Does run into the thickets; they seek after fresh pasture, but ever return home again. One uses like a Captain to lead the Herd, they feed all day, at high-noon they seek shade; they are fearful even to a proverb. Cantharion Arcas, was by the oracle nicknamed a Deere. They are good at leaping, whence a place near Frankfurt hath the name; where two stones are erected, in memory of one that being hunted leaped 60 foot, and upon a loaden cart to save himself. When hardly chafed, they will rest themselves, till the dogges draw near them. When they despair of escaping, they leave the woods, fly into the fields, and sometimes into towns, and houses for shelter; for most part they go with the wind. Their sagacity and wit, in deluding the dogges, is strange. If they are hunted by Eager-dogges, they gather into parties; then if pursued, they fly among

the Deere, kept tame about house; sometimes they mingle with the Herd, to shrowd themselves, sometimes they will drive the hunted Deere from them; they will amuse the dogges by their uncertain steps, going back the same wayes, or where other Deere use to tread, to confound the dogges sent they will run round, and leap to put the dogges to aloffe. There hath been one seen to run among a Herd of oxen, and leap on an oxes back, and to ride him along way, and trailing the hinder-feet on the ground, to put the dogs to a cold sent. They have been seen to leap into trees in shady places. They eat Cinara against venomous grasse; and crabs against the bite of Spiders.

They are very carefull that the Sun-beams shed not on their fresh wounds, to purifie them afore they be closed. With eating Dittany, they can draw arrowes out of their bodies, which goats also do. They swim over seas by herds, one resting the head on the others buttock, and take tuers when the first is weary. This is most observed in the passage from Cilicia to Cyprus; though they see not land, they smell it. They put the weakest last, and venter not out till the wind favours them. They fatten in summer, and then lurk in corners, that their weight may not make them an easy prey to the dogs. They hide themselves also by day, when they have cast their horns, and keep in shady places, to avoid annoyance from flies, and feed in the night, till their horns sprout again, then they come into the Sun to confirm, and harden them. And when they can rub them against trees without pain, they dare venture abroad again. Some say they bury their horns, some say but one; the horns is seldom done, which is medicinable. In Epire they bury their right, else where their left horn; in Parks neither, though they cast their horns yearly. When they have eat a Serpent, that the poison hurt them not, they go to a river, and plunge themselves in all but the head; yet drink not, till by tears they have sweet out the venom, which the cold water expels at the eyes. Eating serpents, clears their eye-sight: when taken, they become not only tame, but will come when called. Nay, you may bridle, and saddle them. It is certain that in Ptolomeis Triumphant-shew, there were seven brace of Stags seen coupled in chariots. Helioagabalus exhibited them by quaternions fo yoked together. They were to Mithridates, as it were a life-guard. Sertorius the Generall of the Spanjards, the Roman, carried a white one always about with him, making the world believe it was Diana. Ptolomy used one to understand Greeke. In fawning they forsake not beaten wayes, no more then Cevals. They purge themselves with the herb Securis, that they may fawn with more ease; after fawning, they eat their after-birth, that enwrappeth their fawn, then tast of a certain herb, and then return to their fawns. These they bring not up all one way; the tenderest they carefully hide among thick

thick shrubs, or grasse; and chastise them with taps of their feet, to make them ly still, and not disclose themselves. When grown up a little, they exercise them to run and leap gapps. A Shepherds Pipe, and singing, will entice them from their pasture. As for their senses, if they prick up their ears, they are quick of hearing; if they hang them downe, they are easily surpris'd. That they are sharpsighted, their great ey is a token. Authors are of divers opinions about their usefulness in food. Some say their flesh is tender, and light of digestion; and better tempered, if cut afore their horns come. Galen holds it to be hard of concoction and melancholy, like Affes-flesh. Simon Sethi saids, it breeds black collar; and that you must beware of it in summer, because they eat serpents then. If often eaten, it brings the palfies in winter it is safer food. Some say, fawns-flesh is best. Of old they praised the flesh, till they were three years old. The older, the dryer, and harder. In rutting time their flesh is rank, and rammish of smell, like goats-flesh. Avicen thinks it breeds quartan-agues. But Pliny saith that he knew Gentle-women, that used to tast it every morning, and were, for a long time free of agues; especially if they dy of one wound. Others, by constant eating of venison, promise themselves vivacity, and spriteliness. The *lover* is thought to be naught. The horn newly shot forth, hath been counted a delicate, boyled, and then fried in gobbets.

In Medicine, many parts thereof are usefull. The *hair* burnt under the belly, prevent miscarriage of women. The *skin* shaved with a pumice with vinegar, cures S. Anthonies fire. The same fastened on the doore with the right feet, scare away all venomous creatures. The same helps against urine going from a man against his will in bed. The *narrow* eases pain, drives away serpents, helps against scalding; taken in water eases the pain in the bowelles; allays the bloody-flux taken glisterwise; softens the womb; helps in Lint monthly termes. The *semet* eases the gout, takes away face-freckles; burnt and mixt with a tosted oyster, cures kibes and chiblainis, layd fresh on, cures the excoriation of the womb. The *brains* Rhafs commends against the pain in the hips and sides, and against bruises. The *lungs* Pliny prayes against corns, chappings, and hard flesh. Marcellus sayes it helps feet pinched by, strait shoes, layed often fresh on it. Dried in the smoak, and powdered, taken in wine, it helps the Pitsike. The ashes burnt in an earthen pot, helps against fighing, and purifies. The pizle dried to powder, taken in wine, is given against the vipers bite; smeared on with wine, it makes a bull lussy, dried it provokes urine, and helps the wind collique, if you drinke the water wherein it is washed. Pliny speaks of the Magical use, or rather abuse of it. The *bones* are good against fluxes. Sextus saith the *knee-blade* is good against priapisme, if carried about one. The *heart* burned with the skin and horn,

smeared on with oyl, cures wounds. The *heart-bone* is counted a preservative: The *stone* in the heart, or the other prevents abortion. The *crull'd* blood of a fawn killed in the Does belly, is a speciall remedy against a Serpents bite; and drunk, is good against the bite of a mad dog; as also if you have eaten hemlock, and toadstools. The *urine* helps the spleen, and the wind in the stomack and bowells. The *teares* in wine, bring vehement sweats. It is round and bright-yellow, and hath black streaks, if you but touch it, it withdraws, as if it stirred it self. The *Harts-horne* is of speciall use. It helps burning feavers, provokes sweats; is sovereign against poison, and many diseases. The inhabitants of Florida bore holes in their childrens selves, and fill them therewith, perswading themselves that that makes them poison proof. Aldernacus makes an eye-salve of it with frankincense, burnt lead, opium, &c. in rain-water. Infused in vinegar, or powdered some, smear it on against freckles, and ring-worms; burnt, the smell helps the falling sickness; with lentile, and deer-fewer it takes spots out of the face. Powdered with sponges, wherein there are stones, in a like quantity of wine and water, dayly drunke, it helps the kings-evil. Snuff into the nostrils with Sandarach, it takes away swelling there; with mastic and salt-amoniack, it whitens the teeth. With vinegar it eases tooth-ache. Burnt with wine it fastens the teeth. With tragacanthus it cures the Hæmopticoicum; half-burnt it helps the bloody flux; with a little live-sulphur, and a newlayed egg, it stops vomiting. Burnt with oxymel, it dries the spleen: It helps the collique. Drunk with ivory, it is good against worms. Some make cakes of it with chalk, holy seed, a roasted egg, and hony. It is used also against womens greets, stopping of the mother. For the differences of Deere. In new Spain is a kind called Macar. Some are red; some white all over. These the Indians call Kings of Harts & Yztak Makame. Others they call Aculhuame. The lesser, Quauhdamacame, that of timorous become generous, and wounded are so fierce that they assault their hunters, and oft kill them. Others like them are called Thalhucamame, of the same bulk, and nature, but not so couragious. The least are Tamamame; perhaps a kind of goats. In Duarhe, Xapida, and other parts of America they herds of Deere, as we of oxen; breeding, and fed in, and near the house. They let them loose by day to seek their pasture in the woods; at even they returne to their fawns shut up in stalls; they milk them, and have no other milk, nor cheese made of any other milk. In some western parts there chafed, and wounded in hunting they seeke an herb, called by the Barbarians Atochielt, whereby they refresh themselves, and recover their swiftnesse. It is more useful to them then Dittany. In Virginia the Deer are longer taylord then ours, and their horn-tops bend back. In America is a race of them called Seovasseu, much lesse then ours, and with lesse heads, their hair hanging down

like Goats among us. In new Mexico, they have hairy long tails, as Mules, and they are as great, or greater than Mules, and very strong. A Spanish Captain had a brace to draw his coach. See Aldrovand about the Cervopalmatus. We have said already out of Julius Capitolinus, that the memorable wood of Cordianus is painted in the Beaked-house of Cn. Pompey; that among other pictures, there are two hundred Palm-herts; the which Gesner at first thought to be all one with the bread-horned Goats; but after, when John Caius a British Philistia sent out of Britain these horns to him, he changed his mind, yeelding it to be a Palm-deere. The horns being longer and thicker, then a Deers usually are. In Persia, about Schamachia, Karabach, and Morage, there are beasts like Does, yellowish, with horns bending backwards, without knobs, which the Turks call Tzeiran; the Persians Aku.

ARTICLE VIII.

*Of the Tragelaphus, and the Taran-
dus, or Buffle.*

THe Tragelaphus seemes to have taken his name from his resembling the Hee-goat, and the Hart. Some call him Hippelaphus, because he is somewhat like a Horfe, he having a mane, and being greater, and grosser then a Stage. The Germans call him *Brandtschich*, either because he is blacker then the Deer, or because he haunts the places, where charcole is made, and feeds on the grasse growing thereabout. He is of greater bulk, and strength then a Deer. Hee hath thick, black hair on his throat, and long on the shoulders. He differs from the Deer therein only, and in his beard. The ridge of his back is ash-colour, the belly duskiish, the hair about his pezzle cole-black. They are found, not only about the river Phasis, as Pliny mistakes, but also among the Arachosians; and are taken also in the Torantine, and Konigsteinian wildes of Misia near Bohemia. The blackish Deer in England differ little from them.

De Taranodus, or Buffle, is called by the Barbarians Pyrandrus, and Pyradus, by the Northern folk Rehenfchier; by Hezychius *Chandarras*. He is as big as an Ox; headed like a Stage, nor unlike; shaggy like a Beare, but white-hayed. His hide so tough, that they make breast-plates thereof. Thick breasted; cloven, and hollow hoofed, and loose; for in going he displaies them. So fleet, and light of foot, that he scarce leaves any print of his footsteps in the snow; outrunning the beasts that ly in wait for him in the vallies. His horns are lofty, that are crosse beamed from the very forehead; a knotty branch is in the midst, that branches out again into broader. The horns are white, and streaked with small veins. They differ from the Elks-horns in height; from the Harts, in

breeth; from both, in colour, and numerousness of branches. When he runs, he rests them on his back, for while he stands still the lower branches even cover his forehead; with these lower he is said to breake the ice to come by drink. His food is wood-fruit, and mosse on trees. He makes himself lurking holes in the Northern mountains, and in hard frosts comes to Mosiberg, and other hills in Norway. Men take them for household uses. They bring him to high-way journeyes; and the Husbandmen to work of husbandry. No wild flesh is more delicate: They live together in herds, and are seen in the vast Northern wildernesses by thousands together. The females branch not. They are found in Norway, Swethland, Lapland, and Poland. There were once a brace brought bridled, saddled, and trapped to Augusta of the Vindelici. They change colour ^{Solin. P. c. 33.} through feare, taking the colour of what they come near, be it stone, or wood, white, or green, to shrowd themselves, like the Polypos in sea, and the Chameleon on land; but these latter are smoother, and fitter for that purpose, those are rough, and it is strange they should change colour. But what for a Buffle this is, whether the Turo, or Rangifer is uncertain. I have given you his print here, as near the truth as I could.

ARTICLE IX.

Of the Rangifer.

IN the description of the Rangifer, or Reen, Writers agree not. ^{Alb. H. B. c. 29.} *Albertus* saith, it resembles a Deer, but is greater, and of remarkable colour, and very swift of foot. He is attired with three rows of horns, on each are two horns, so that his head seems made up of little rocks. Of these two are greater then the rest, standing where the Deers horns use, which grow to five cubits length, and there are seen on him five and twenty branches. Those two in the middle of his head are short, and weakly. Others he hath on his forehead, liker boms, then horns, which he uses most in fight. *Olau M.* saith, he is three-horned, and that he is a kind of Stag, but much taller, fleet, and longer. He is called Rangifer, both because of his lofty horns, that resemble the branches of the Oke; as also because the harnesses that they fasten their winter Carts with, to their horns or breasts, are in the country tongue, wherethey are called Ranga, and Loga. He hath a mane, and round hoofs. He hath a trident on the top of his horns, and is found in the Forrests of Poland. *Iulius Caesar* ^{John. Pol. c. 23. G. 14.} makes him a kind of Ox, shaped somewhat like a Hart; from the midst of his forehead, between the ears sprouts out one lofty horn, straighter then those known to us; the top spread, and branching. Some make him like the Elke, some like the Asse, in stature, bulck, and slenderneesse of legs; headed like a Calf, necked,

necked, and mained like a Horfe; the horns shadowing, smooth, slender, long, stretching to the back, otherwise like the common Deer. *Scaliger* ascribes to him all that *Olau M.* doth to the Elke. They are found in Lapland, Swethland, Norway, and near the North-Pole. Their meat is mountain-mosse, white, especially in winter when the ground is covered with snow; which though never so thick, nature hath taught them to dig through to come by their food. In Summer they browse on trees, leaves, flowers, and herbs; rather desiring to stand upright, then to bend in feeding, because their horns striking out afore hinders them; so that they must feed with their head wryed on one side. If you bring them into other lands, they live not long, as men find in Hollatia, and Prussia. Neither were sent by King *Gustavus* in the year 1533, and turned loose into the woods, but none of their breed have been found there. Because they are both wild and tame; their milk, skin, sinews, bones, flesh, and hair are made servicable to man. The milk and whey is for food. The skin serves for cloaths, bedding, and saddles; being strong and lasting, they make therefore backs, and bellows of it. With the sinews they sew garments. Of the bones and horns they make bowes. The flesh they dry in the wind and the smoke, to last many years. The hoof helps the cramp. With the hair they stuff saddles and cushions.

ARTICLE X.

Of the Elk.

SOME make the Elk a wild beast, a kinde between the Hart and the Camel; bred among the Celtæ, hardly found out; if they smell a man, which they do afar off, they hide themselves in deep caves, and dens. They are in the Hercynian wildernesses, somewhat like the goat, but somewhat bigger, and of another hew; not horned, their thighs without joynts, never lying down to rest; nor if they chance to fall, can they rise again of themselves. *Pliny* makes him like a beast of use in husbandry, only differing in height of ears and neck: Not unlike the Machlin in the Isle Scandinavia, the like never seen in these parts, but without bending knees, sleeping standing, leaning against a tree, and so taken by cutting the tree then down, otherwise very swift. The upper-lip very great, which in feeding turns back, which else would be wrapt about what lies afore him. He is found on the Alps, saith *Dodonæus*, hath under his chin a gobbet of flesh, so big as a hand, hairy, grosse as a foles tail. *Scaliger* speaks of two kinds of Elks, but calls this Bison. *Olau*, a kind of wild Asse, *Erafmus Stella*, a kind between the Horfe and the Deer, casting his horns yearly. *Leuning* takes him for a kind of Goat. The Dutch call him Elend, or Misery, both because he is daily sick,

and remains so till he put his right after-hoof to his left ear, as also because the slightest wound kills him. *Cardan* calls him a great beast like a Hart, bred in the North, having long forelegs, and a fleshy trunk, but little, and horns unlike all other beasts, thick and broad from the bottom. The shoulders sink downward; as big, and tall he is as a reasonable sized fat Horfe; he goes hanging his head down. His head and neck to the shoulders is thick of hair, and that long, and hath a beard like a Goat. His colour white-ash, but at times of the year his hair changes colour. His head very long, and slender for such a body. The lips great, hanging, and thick, chiefly the upper-lip. The mouth long. The teeth not great, nor long: Ears long, and broad. The male hath various horns, and full of branches, but nothing near the Stags; the female hath no horns. The horns are two fingers thick. One horn is almost triangular in shape, and extend like a great birds wing, of twelve pound weight. Like Stags, they cast their horns at set times of the year. One I had a while by me, that fell from the Elk, like a ripe apple from the tree of it self, known well by the root; other two small ones I have, of two or three months growth, cut off a while afore the Elks death; which have a soft down on them, and blood. He is big-bellied like a Cow: his tail strangely small: cloven-hoofed he is as an ox.

The skinn is thick, and tough, and can defend against cuts and stabs, as if it were an iron breast-plate; the Tanners prepare it with fish-fat so, that it can keep out any shower of rain. It is like a Deers skin, but differs from it thus: it sends forth a breath, that may be felt by a hand opposite, because it is full of pores, and the hairs are hollow, though Gesner deny it, who hath a foot by him; but he might be deceived, because pores are shut in dead Bodies. The horns weigh about two pound, and are two foot long, not branched, as the stages, yet divided with some flat blades, more like a shoulder, then a horn: They are brought out of Lithuania. But the horn of a great Elk sent to Aldrovand, weighed but seven pound twelf ounces; the part near the head, a man could scarce grapse, adorned with five blades, two on each side, beside a little one shooting out. The legge weighed three pound and an half. The nature of the Elk is, being hunted to betake him to the water, and to take a mouthfull, and to spout it hot at the dogges. He is seene feldome alone; in snow they goe many together in company. One hastens afore, as occasion serves; the rest tread in his very steps, and hold the same pace: They can hold out a day and a night, without eating or drinking. If you take the young one, you may make the dame so tame, that shee will be brought to drink beere with you. He hath such a strength in his hoof, that with one blow hee can kill a wolf, and bruse a tree, as if it were a toad-stool. The natives, wher they are, eat the flesh, both fresh and salted; but the

juice seems to be but grosse, and melancholy. In Phisick, the horne is binding, and good against the epilepsy, if cut off between the feart of the birth, and that of the assumption of the Virgin Mary: Some say, on Ægidius the day. The sinews are used in Swethland against the cramp, made into a girdle, and tied about the part in paine. The hoof helps against the falling-sicknesse, and the stopping of the womb, or hysterice. The outer right hind-hoof of the male, afore he hath coupled, chopped of from the live-foot with a hatchet, after mid-August, is a present help for the cramp, and fainting fits; if you make a ring of it for your left hand, or if you grasp it in your right hand; or put it into the left eare, and sometimes pick the ear therewith. The shavings of it with zedoary, helps womens griefs.

ARTICLE XI.

Of the Rhinoceros.

THE *Rhinoceros* borrows his name from the horn in his snout. Some call him an Egyptian Ox, some an Ethiopian Bull, but they mistake; for there are none in Egypt, except by chance. In Æthiopia indeed is a bull, like him in the horn, which the unskillfull miscall a Rhinoceros. Authours are most uncertain in their description of him.

Pliny in short thus; *That hee hath one horn in his Nose, he is as tall as the Elephant, his thighs much shorter, box-coloured.* Others add, that he hath a swines-head, an oxes-tail, the Elephants hew; his horn is two foot long, that he is in the Province of Mangus; that he is cold of temper; the horn on the tip of his snout is sharp, strong as iron, his skin so tough, that no dart can pierce it; that he hath another shorter horn on his right shoulder. Some say, two in his nose, others say, one in his forehead. Some make the horn strait, like a Trumpet, with a black cross streaked. Some say it is crooked; some flat; some, turning up. Some write that he hath two girdles on his back curling, and winding like those of Dragons, one turning toward his mane; the other toward his loins. But Bontius, who hath seen the Rhinoceros a hundred times, both kept in Den, and loose in woods, writes that his skin is ash-coloured like the Elephants, very rugged, full of deep folds on the sides, and back, thick of hide, that a Japons sword cannot enter; the folds are like shields, or shells. He is hog-footed, but not so blunt-nosed, their horn at the end is different according to their age: in some ash-coloured, sometimes black, sometimes white, he is not so long-legged, nor slightly as the Elephant.

He is found in the deserts of Africa, in Abasia, in many parts of Asia, in Bengala, and Jacatra; Not known to the Greeks in Aristotles time; nor to the Romans afore the year DCL XVI after the building of Rome.

Some say Augustus shewed one in a Triumph. Some, that Pompey was the first, who presented him in his Palays. He hath a rough tongue, and feeds on grasse, and briars. He holds enmity with the Elephant. He hurts not mankind, unless provoked. When he is to fight, he sharpens his horn on the stones: In combat, he aims at the belly, which he knows to be soft; out of which he lets all his enemies blood. If he cannot come at the belly, the Elephant with his trunk and teeth dispatcheth him. Provoked, he makes no more of a Man and an Horse, then of a flea; he can with his sharp tongue lick a man to death; fetching of skin and flesh to the bare bones. Shoot him, and he with a hideous cry layes all flat, that comes in his way, even the thickest trees. Read stories of his fiercenes in Bontius. Hee delights strangely in mud. Being to fight, hee secures her yong one first: Hee grunts like a hog. The Moors feed on his flesh, which is so finewy, that they had need of iron teeth to chew it. The skin steeped in wine is given in against malignant feavers. The horne some prescribe against poyson. The dainty ones among the Romans used it in bathing for a cruize; They kept oyl in it for them that bathed: I cannot say there are different kinds of these beasts. Yet they say, there was one taken in Africa as great as a wild Ass, the horn two cubits long, the feet like the Deers, eared like the Horse, tailed like the Ox.

CHAPTER III.

Of the fourfooted Beasts chewing the cud, that have no horns.

ARTICLE I.

Of the Camell.

THUS far of the Horned-beasts chewing the cud. Those that have no horns, are the Camell, and the Camell-pant.

The *Camell* is so called either from the Hebrew *Gamal*, or the Greek *Kammos*, to labour, since hee is a Beast of carriage; or from *Chamaï*, lowly; because hee creeks to take up his burden; or from *Kammeros*, crooked, from his manner of bending. Hee is cloven-footed, but behind on one fashion, afore on another; the clefts like the Gooses are filled. The Bunch on their back differences them from all other beasts: Hee hath another below like it, that seems to support his body, it is about the bending of the knee. The female hath four teats like the Cow: Tailed like the Ass, The Genital behind, and so finewy, that with it men bend the strongest bows: On either thigh a knee; nor more folds, but they seeme so many, because they come under the belly. The ankle like the Oxes. The buttock answers the bulk of the body: The gall is not distinct, but confounded with certain veins. Hee hath no fore-teeth above.

above. Hee alone of the hornles beasts hath a double stomack, to digest his thorny hard food. Therefore the skin that covers his mouth and stomack, is throughout rough: Some write of their marrow and fewer. They are found in Africa and Asia, in Baetria especially and Arabia, and in Ionia by the city Clazomenia, where they leave whole fields for them to feed in. Mithridates being overcome by the river Rhindacus, they were first (saith Salust) seen at Rome; but there were of them seen in the Achaian and Asian warre. Ptolomy at Lagus shewed a Baetrian one all over colblack among his fights. They delight in thorny and woody food; they brows also on bulrush tops, nor refuse they barley alone, or with hay, or thin low grasse; sometimes content with thistles: Now a dayes they that travell through the deserts of Arabia, give each five barley cakes a day, as high each as an Quince: They can goe four dayes together without drinke; but when they come to water, they drinke so much, as not only quenches thirst, but serves for the day following. They love muddy, and avoid cleare water: they stamp on purpose in their water to thicken it. The later ones they say can refrain from drinke 12, nay 15 dayes together, if need be; and some eye-witnesses affirme that in Biled Elgerid, if they feed on fresh grasse, they never drinke. About their Engendering, the posture and manner read Pliny, and Aristotile. In coupling-time they retire into lonely places, when none can safely come near them, but their keeper. Some say the female goes ten months, and in the eleventh brings forth; and a year intermitted couples again. They bring forth in the spring, and some say, they presently after couple. Writers differ about it. They have three enemies, the Horse, the Lion, and the Gadfly. Cyrus with his Camels worsted Cræsus his Horse; for Horses cannot endure their smell And the Arabs smere their Camels with fish fat, to keep away the flies from vexing them.

They are troubled with the *gout*, whereof they dy, and shedding all their hair, is another of their diseases. They run mad sometimes through lust, and remember a wrong, and kill whoever they meet, even their guides. This frensie lasts fourty dayes. Some say, Hieron writes of one in Baetria, that had killed divers men; there were above thirty men to master him with strong ropes, and a great out-cry. His eyes were blood-red, he fomed at mouth, his tongue swelled, and he roared hideously. Some live fifty years, some last hundred, unless change of hair bring them into diseases, they live longest in Baetria. Their disposition, nature, appears in their revengefulness, teachableness, love of musicke, modesty, and natural affection. He layes up an injury long, being broken, and watches occasion to be revenged. He may be taught by a drum to lead a dance; they use a yong one to tread on a hote floor, which makes him lift up his feet by turns; a drum being still beaten at door. They use him to a

year in this school; and after, when ever he hears a drum, he falls a capring; when he begins to tire, musick will invite him on, when blows cannot force him. He will not couple with his dame. If being blinded he be betrayed to it, in revenge he will kill the causer of it. He is compassionate. He eats all night; but forbears, if any in the stable be sick. This the Indians observed. When they would have them speedy they take their yong ones along some miles with the dame; shee will double her pace to returne to her yong ones. He is very usefull. In medicine, the flesh provokes urine. The fat of the bunch smoked helps the Hemroids. The brain dried, with vineger, the falling sicknesse. The blood furthers conception, and is good against the stoppings of the mother, if used afore the moneths. The milk eases the belly, being thin and waterish, it helps the cramp, and wakens appetite. The urine, (which sullers also use) whitens and cleanses the teeth. The *sayl* dried loosens. The dung with oyl makes the hair curl. The same, white, pounded with hony, allays swellings, and cures wounds. It is said, that the bristles of the tayl wreath, and tied to the left arme cures the quartane; if you will beleve it, we know that the Arabs eat the milk. Galen saith, the Alexandrians eat the flesh. Hellogabalus, Apicius like, fed on it sometimes at supper; and the heels being tenderest. The Jews of old made it their food. Some reckon that, and the milk among dainties. This, in those that are near foaling, is of a lesse cheefy, and buttery substance. Historians relate their use in war. Hence some armes have their names; as we shall shew, if God give leave, in our Philology. In Arabia, Egypt, &c. they travell not without them. They are good for carriage, but stinted to so much weight, usually fix hundred pound; for a need, a thousand. While they are loaden, and unloaden, they ly down on their belly; and feeling they have their just load, they rise up, and will carry no more. The African Camels will travell with ease fifty dayes together without intermission. Some are fat, some lean, there are reddish, and white. The swiftest are called *Dromedaries*; these are lower then the other. They will travell above an hundred mile in one day. They are fleetest then Nisæan horses. The females are swiftest. The Arabian are double-bunched on the back, called thence *Dityloi*. The Baetrian are held strongest, and have one bunch under the belly to ly on. The *Caspian* are as big as the greatest horse. The African are of three kinds; the first is called *Hugian*, who are indeed huge great, and strong, able to carry a 1000 pound weight. The second fort are lesse, double-bunched on the back, called *Becheti*, fit for carriage, and to ride on; the Asians know no other. The last they call *Ragualih*, they are lanke, and slender; fit only for the saddle, he will carry a man an hundred miles a day. On the life the King of Tambutus uses to send his messengers to Segelmests, or Darha, 900 miles of, in the space of eight dayes, without

without any baiting, or resting by the way.

ARTICLE II.

Of the Camel-pard.

Aldrov.
c. 35.Pliny.
Albert.

Vincut.

Strabo
Geog.

Phor.

Plin.

Dio. Hist.

Heliolod.

Place.
Strabo.

HEE borrows his name from the Camel, whom in bulk he resembles, and from the Pard, or Panther, whom he resembles in his spotted skin. The name, and the beast came first from Alexandria to Rome. He bears other names, as, *wilde Sheep*; from his gentleness, and living in deserts, and *Nabis*, Nabuna; by the Ethiopians, Anabula, & Saffarat, and Orafus, but falsely. Since that is a beautiful, this a misshapen beast; of late, Giraffa, corruptly Saffarat. Nor Aristotle, nor Aelian mention him; Strabo, and other ancients, differently describe him. One writes, that he is so long-necked, that he can reach his food from the highest tree, and that his skin is checkered like a hind's, and streaked; he is lower behind, than afore: sitting, he seems as high as an Ox, he is taller than the Camel, and gentle as tame cattell. Pliny makes him horse-necked, ox-thighed, camel-headed, with glittering white spots. He is slender, and swan-necked. Bellonius saith, he saw three in Cair, each had two forehorns, sticking six fingers long out the forehead, and a bunch out the middle of the forehead, like another horn, about two fingers long, the neck seven foot long; and when he stretcheth it out, it is sixteen foot from the ground, he is eighteen foot from the taylor to the top of his head; that his legs are of an equal length; on his thighs afore stand much higher than those behind; his back from his taylor to the top of his head, rises like a ladder, and as a ship-keel, the whole body marked with great spots, like a deers, four-squared, nine inches broad, the ends white, and a finger broad. The whole body, like a net, the spots are not round like the Leopards, the foot cloven, like the oxes. The upper-lip hangs far over the lower. The taylor is thin and small, hairy at top. He hath a mane like a horse, reaching from the back to the top of his head. He seems to halt, as he goes, now on the right side, anon on the left; but on legs, and sides wagling; and when he would either eat, or drink any thing from the ground, hee straddles wide afore, and bends his legs; otherwise he cannot eat. His tongue is two foot long, of a darke violet-colour, round as an eel, wherewith he licks in boughs, leaves, grasse, nimbly, and even undifferently.

Purchus, out of Fernando the Jesuite, writes, that he is so vast and tall, that a man on horse-back can passe under his belly; he is found in Africa among the Troglodites, and in Ethiopia. Cæsar the Dictator, made them first a part of his Shew at Rome. After him Gordianus shewed to. Aurelia also led some of them in Triumph. The Ethiopians presented one to Leo the Emperor, A Sultan of Babilon, another

to Frederick; and another Sultan, another to Laurence de Medices. His keeper can easily lead him with a head-stall, as he list. The Jews might not eat of them, whence perhaps they come to abound so in Judæa.

CHAPTER IV.

Of the four-footed Beasts that chew not the Cud.

ARTICLE I.

Of the Swine.

THE Latines give the Swine five names, *Nasus*, *Porcus*, *Scropha*, *Verres*, *Majalis*; in English, the Sow, the Hog, the Barrow hog, the Boar. *Sus* the Sow; in Greeke *Uys*, common also to the Boar. Of old, called *Thyrus*, from *Thyein*, to sacrifice; since a Swine in the rites of Ceres was offered, and in entering covenant; and in Hetruria, at marriages by the new-wedded couple. The like did the ancient Latines, and Greeks in Italy; for the women, the nurses chiefly called, the female nature *Choiran*, which signifies a swine, and one that deserves a good marriage. *Porcus*, a porke, from *Spurcus*, wallowing in the mire. The Sabines, *Poridus*; the name they give brawn. *Scropha* is a Sow that hath oft had pigs. *Verres* is the Boar, or Boar-pig; *Majalis* is as the gelding among horses, or the capon among pulen. *Hybride* were of old swine half wild, or ingendred twen a tame, and a wild. Wee shall in brief describe the Swine; it being so well knownen, in the Bones is much marrow. The hairs are stiff, and bristly, thicker then the Oxes, and Elephants; amongst us for the most part yellow. In France, and Italy, black; most are party-coloured, if you observe them well. The *farlies* betwene the skinn, and the muscles, called *Lard*; the *grasse* is old, or salted, or simple. The *brain* is fatfull, and decreases in the waining of the Moone, more then any other beasts. The *eyes* are hollow, and sunk, not to be taken out without hazard of life; no not one onely. The *eyebrows* move downwards toward the nose, and are drawn backward toward the temples. The tip of the *nose* is thick, the *fore-head* narrow, the *lips* broad, the *mouth* stretched out, and broad, to root withall, called the snout. The Sow hath fewer teeth, and never sheds them; the neck-skin is toughest. *Sows hearts* are inarticulate. In the *ears* is a moylture like gall, of the thickness of that of the spleen. The *stomack* is large, and winding. In the *liver* are white stones. The flesh below the navell is without bone. The Sow hath many paps, on a double row, having many Pigs to suckle; the best, twelf, the common ones, two less. Of their genitals, see Aristotle. Their *taylor* is crooked, they have no ancle, and are a middle-kinde between the whole, and cloven-footed.

They

Plin.

Democr.
p. 299.Place.
Strabo.
Geog.Heliolod.
Geog.
Aldrov.

Plin.

They have ten ribs. The Sow hath circular gristles, whereof read *Severinus*. In the small guts of one he hath seen two wormes, one a palme, another a finger long, both hollow, and full of white juice, as chile, or first milk, both shaped like an earth-worme. Learn hence how worms breed in, and cleave to our bowels. The thinskin of the Sow, is of the same colour with the hair. He anatomized a Sows belly, and found in the utmost ends certain thin skins, wherein it seems, were preserved the superfluities of dregs, and piss. The navel-vein is parted near the womb; the navel-vessels first bend toward the left pinion, then encompassing the neck crookwise, they lead back toward the right leg. In the Birth almost all the bowels are conspicuous, the Liver, Stomack, Bowels, Milt, Reins, Mid-rif, Heart, Lungs. The heart whitish, the Lungs liver-coloured, the Liver dark-red, the Reins great according to the proportion of the vein appearing by the right forefeet, but more by the hinderfeet; the throat veins that ascend to the head, are of the shape of a lambda (λ). In a perfect shaped pig, the breast laid open by two crosse-sections, you see two sinews, that passing through the throat, and cleaving to the heart-skin, descend directly through the sides of the heart to the mid-rif, by whose sinewy-ringlet they are fastened through two or three branches, or sprigs; whence passeth another to the upper-mouth of the stomach. Here perceive you plainly the stemming of the axillary vein, and the thymian. The lappets of the heart are hollow, divided from the forepart of the heart, conjoynd behind. The passage of the urine from the bottom of the bladder after two fingers breadth is set into the arteries. At the end of the *yard* is a round kernel, and two in the neck of the bladder, &c. In the Stomack is a slimy juice like bird-lime, or the white of an egg; in the bowels another like thin hony. A vain unparallel'd runs along the back bone, branching toward the severall ribs. Swine are found every where among us. In *Strabo* his time, Gaul was so full of them, that they furnished Rome; the best came pickled thither from Lions. So good were at Syracuse, that *Italian* cheese, and *Syracusan* porke grew into a proverb. *Solinus* saith there are none in Arabian; *Aelian*, that there are none in India; and if brought thither, they dy. In the Southland there are none of the four-footed beasts, that are in our world, except Buffles, Cows, Goats, and Hogs.

Swine eat all things, plants, fruits, roots, acorns, chestnuts, dates, grane, bran, what not? Beech-acorns make Sows lively, and pork light of digestion; the Holmed-acorns make them well trussed, and weighty, and plump; the Oken ones, well spread, large and heavy. Fast flesh, but hard comes from Malt. Holmberies are best, given a few at once. Acorns from the Efculus, the Oke, the Cork make light, spongy pork. The Haliphlaei give them acorns only, when they want other food. *Pliny* among chestnuts commends those with a stony shell.

In Egypt, Cyprus, Syria, and Seleucia in Asia, they are fatted with dates. The Ash-frut also fattens them. Dry Cyritus is commended by *Aristomachus* the Athenian. Scallions they eat in Bavaria. Wild rape also, have leaves like a violet, sharp, a white root, not without milk. Henbane makes them run made. Green pasture hurts them. They eat flesh also, mens carcases; nay, they spare not their own pigs; nor hens and geese in winter. They root up wormes, they feed on snails, and wood-tartar-yes. Sixty dayes will fatten them, especially, if you hold them fasting three dayes in the beginning. To fatten them with figs, till they burst again, was *Apicius* his invention. The English are a year fattening them, which makes their pork firme and dainty, where a Sow becomes so fat, that she cannot stand nor goe, but must be carried on a cart. In Lusitania the farther end of Spain was a Swine killed, two ribs whereof were sent to *Lucius Volturnus* the Senator, that weighed three and twenty pound; and there were two foot, and two fingers from the skin to the bone. *Varro* saw in Arcadia a Sow so fat that she could not rise. And that a Rat had eaten into her flesh, and made a nest therein, and laid her young ones there. *Gelsius* relates the like of *Basil*. Thirst in Summer troubles them. Grape-kernels in wash makes them drunk. They gender from eight months old to their seventh or eighth year. They litter twice a year, and sometimes twenty at a litter; they goe four months with pig. They are prone to cast their farrow; the pigs are pigged with teeth, saith *Nigidius*. One Boar serves ten Sows. They couple when the Moon waines, and that often, and afternoon commonly; when the Boar of rages, and will tear a man with his tusks, especially one in white cloaths. They litter fewest at first time, more at next, and though old they bate not; they pig eight and ten, sometimes eighteen at a time; some say, as many as they have teats. A white Sow is thought most fruitful. The Winter-pigs are small, and thrive not.

The Helvetians prefer March-pigs. In hot Regions, winter ones are best. The Sow having littered, gives to the first pig the former teats, being fullest of milk. Every pig knows its teat, and keeps to that alone. Take away the pigs the goats barren, leave her one only, she brings it well up. If you give acorns to a Sow big with pig, you hazard the casting her farrow. Swine hold antipathy with the Elephant, who also cannot endure their grunting. A Wolf also fears it, and dars not venture on a herd of them. Salamanders they devour without danger. Ointment of Amarcus is bene to them. The Weasel and they are foes. Henlock kills them. In Scythia, Scorpions dispatch them with one stroke. The Horse abhors his filthy smell, ugly grunting, and filthy breath. They cast not their teeth; but after eating new corn, their teeth are ever weak, nature so punisheth their otherwise untameable greedinesse. If they looke not their eyes, nor eat themselves

H dead,

Age.
Pin.

dead, they live fifteen, some twenty years. The disease that most troubles them, is a swelling like halitons, that lurks unseen while they live, but cut one up it shews it self nor is there scarce any without three at the least, whereto those are more liable, the flesh of whose thighs, neck and shoulders are most, we call them meazles. They cleave to the lower part of the tongue: a Hog is known to be meazled by the bristles plucked from the back, if the roots be bloody. If they come out of a hot into a cold place, and are suffered to ly down, if you stir them not, there is a kind of convulsion in all their members. They are also troubled with hog-lice; and in Summer, unless you often stir them, they are taken with a lethargy. They are troubled also with cough, spincy, swellings and loofness; unless they drink their fill, they become shortbreathed. They are most brutish, filthy, lustful, and greedy by nature; and seem to have a soul only as fast to keep them from stinking. As bathing is mans delight, so wallowing in the myre is theirs. *Gryllus* in *Plutarch* praises their modesty and continence, and prefers them afore men and women. Though they are ravenous, yet they will not eat a dead hog. Their greediness is insatiable. They know mans voyce. They have been known to swim home again, having been stollen, and the ship cast away. Their voice is grunting: And to say the truth with *Pliny*, no creature yields more matter for gluttony to work on then it; near fifty several favoury dishes may be made of Swins-flesh. *Livy* celebrates a feast of a Chalcidian-Hoast set off with exquisite variety constituting hereof. *Homer* tells of what value it was in the Heroique-age of the world; the servants fed on lean, the Masters on fat pork. The solemnity of the Saturnals was celebrated almost with no other, however no daintier food; and their riot came to that height, that they set whole ones (and those stuffed,) on the table, whence came the names Garden, and Trojan-pork: One part roasted, another boyled, and killed after a peculiar fashion. The Pigs are counted daintiest: Yet the Jews will not touch Swins-flesh, it being forbidden by their Law; the Arabians forbear it; the Mahometans also, who feigne that Mice breed in Swins-snouts; and the Moors, Tartars, and the Perfinitu of old. But that of the Delphici is too moist, and breeds raw humours. Some kind is good of digestion, by reason of the similitude it hath with mans body, and nourisheth more then other food. How strengthening it is, the example of Wrestlers shews that used to feed thereon; It is not so grosse as Beef. *Hippocrates* condemns pork. The Sow of a middle age is sweetest; yonger, if it ly long in the stomach, corrupts. Choyce ones come from *Cicilia*. *Apicius* drest Pigs on sundry fashions, whence the names of farcil, liquaminous, roft, Vitellian, Flaccian, Laureate, Frontanian, Oenogerate, Celsian, and the rest. The liver is preferred afore all the rest, if the Hog be fed with figs dried. The Ancients prized the

Pin. 1.8.
c.51.

Rhok-
gin.

Lip. in
Macro.

Athen.

Solin.
c.46.
Pant.

Galen.

Hippocr.

Athen.

Ælius.

neck, the gammon, the fitch, &c. Of the flesh, and the rest are made sausages, puddings, &c. Of all which elsewhere, God willing. Of their Medicinal use *Gesner* treats most accurately; a decoction of their flesh helps against the poyson of the fly Buprestis. The warm blood is good against warts smeared on, keeping them from growing. The grease of a male sucking pig gelt, that especially about the rim of the belly, is by Apothecaries used in their ointments, and by Physicians to fosen, and disperse humours. The bones broken, tied about bacon in boiling, makes it firme on a sudden. Bruised with broom, it helps the pain in the knees. With chalk smeared on, it is good against wax-kernels. Drunk in wine with salt on, it helps catrel that have eaten Hemlock. The Liver taken with wine, helps against the biting of any venomous thing; roasted, it stops a loofness. The Bladder provokes urine, if it have not touched the ground, laid on the privities. Any thing about a Boar burned, helps those who cannot hold their water. The Stones kept long, and stamped in Sows-milk, is good for the falling-sicknesse. The greatest bone of the *gammon* of a barrow-hog, burnt dries, and fastens the gums. The *ankle* burnt till of black it become white, easeth the paine of the colon; the milk smeared on the temples, makes drowly. *Hog-dung* made into a paste with vinegar, is good for the bursten. See more in *Gesner*. As for their different sorts, some are tame, some wilde. Later writers mention Guinee swine, and the Slavian, and the Tapierete; the Guinee-hog brought to Brasill, is shaped as ours, but of a yellowish colour; the head not so high as ours, the ears long, and sharp at top with long tips, the tayl reaching to the ankles without hair; the rest of the body hairy, and sleek, and glistering, without bristles, even on the back, the hair longer toward the tayl, and on the neck. He is very gentle. The *River-hog* the Brasilians call *Capybaria*, is so big as ours of a year or two old, two foot long from the head to the dock, the belly a foot and half thick, he hath no tayl, his forefeet have foure hoofs, the hinder but three, the middlemost afore is longest, the fourth is least, so behinde, the middlemost is longest, he hath a hard skin, even to his hoofs, his head is ten fingers long, and almost as many thick, very disproportionable, the mouth is also long, and thick, the eyes great and black, the ears small and round, the under-chap shorter then the upper, either hath two forefeet crooked that hang out, from their sockets a finger and half, and sticking in almost two fingers; but the tuskes stick not out of the mouth, but are set as in hares. The other tuskes are strange, in each jaw stands eight bones, on each side foure, and each bone holds three teeth undivided, so that in each jaw stand 24 teeth, in all 48, all plain at the ends; they eat grasse, and divers sorts of fruit, they eat the flesh, though it have no good taste, the head is best. The Brasilians call one kinde *Tapierete*; the Lusitanians,

Physic.
Galen.

Pin. 1.33.
c.9.

Kind.

Margat.
Hait.
Brail.
c.7.

Defeciq.

Oppian.

Pace.

Theoph.
H.P. 1.4.
c.13.
Ælian.
1.17. c.1.
Pin. 1.12.
c.51.

Per. Marg.
Diod.
Ocean.

nians, *Anta*; he is fourfooted, as big as an heifer six months old, shaped like a hog, and so headed, onely thicker, and longer, and more copped; his snout hangs over beyond the mouth, which by a strong sinew he can draw in, and thrust out, the snout hath long clefts, the lower part of the mouth is shorter then the upper, both jaws are pointed, or sharp afore; he hath in all forty teeth, grinders, and others. His eyes are small, as an hogs, his ears great and round, sticking forward, the things are thicker then a hogs, and as long; in his forefeet are foure hoofs, in the hinder three, the middlemost greater then the rest, all black, and hollow, and may be plucked off: He hath no tayl, but in stead a bald stump: Genitaled as a Baboon; goes with the back ridged as the *Capybara*; the skinne solid, as the *Elke*, the hair short, in the younger coloured as a lightfome shadow, spotted with white; in the older darkish without spots. He sleeps by day in shady thickets, night and morning he comes forth to feed. He can swim excellently. He feeds on grasse, sugarcanes, cole, &c. Men eat his flesh, but it is not well tasted.

ARTICLE II. Of the wilde Boare.

THE Latines call him *Aper*, &c. the Greeks *Kapros*, &c. They are for the most part black, or blackish. Some brass-coloured saith *Pliny*. *Pausanias* writes, that he hath seen white ones; their eyes fierce, and staring. The tuskes great, turning up, sharp, and white. And, which is strange, while the beast lives, they have the keen force of iron, but pluck them out of him dead, they are thought to loose their keenness. Some tuskes are said to be so long, that they turne back into a ring. In India some have double bending tusks, a cubite long. *Gyllius* relates, that, when he is mattered by the dogs, and spearmen, and falls, his tusks through his inflaming breath burnt as fire; and if any pluck a bristle out of his neck, and hold it to his tusks, while hee breaths, it shall shrivell up, and scorch; and if he touch but a dog with his tusks in hunting, it shall set a marke on him, as if he were branded. His mouth is like a shield, wherewith he withstands spear, and sword. He hath no gall. His blood hath no strings in it. *Pliny* faith there are none in Creet. Some say, but mistake, that there are none in Africa, nor in India. But they are by herds in Islands in the Nile in Egypt. Some say they are mute in Macedon. The Spaniards in West-Indies have found some lesse then ours, with short tayls, that they thought they had been cut off; not footed as ours, not cleft behind, but whole-hoofed; the flesh much more favoury and wholesome then ours. Neare the Sea-shore there grow many palms, and marshy reeds, where many of them wander. *Lycous*, in

Calphurnius his husbandry, saith that among the Roman shews he saw snow-white hairs, and horned wild Boars. These wild feed as the tame swine on acorns, apples, barley, herbs, roots, and the rest. With their snouts they root aloft worms up. They long exceedingly after dry-figs. But they are of a more cleanly nature then the tame. They are found sometimes among fern leaves, which themselves have gathered together, and spread to ly on. They avoid a kind of sharp-eared coru, that the Germans use to feed on. When they would engender, their neck bristles start up, and stand as the crest of an helmet; they come at mouth, gnash with their tusks, and their breath is extreme hot: After, they abate of their fury; being rejected they force, or wound the female. They couple in the beginning of winter; bring forth at spring, seeking lonely, craggy, narrow, dark-some places to litter in. They keepe company thirty dayes. The wild swine carry their pigs as long as the tame, and litter as many. They pig once a year; The Boar is a year older he genders. They grunt, and snuff as tame; but the Sow more, the Boar is feldome heard. They haunt out-places, and those deep and steep. They are quicker of hearing then man is; they herd together, but commonly with their own brood. Their tears are sweet; they foame when chafed with hunting, and it is cleaving. Their urine is so troublesome to them, that unless they can water, they cannot fly, but are taken, as if they were tied; some say it burnes them. They are hardly ever tamed, and you must begin from the first, while they are pigs. Hemlock, and the root of *Synanchus* kills them. If they chance they eat hemlock, they frair shrink up behind, and pine, and hasten to water, and eat crabs. They cure their diseases with Ivy: they grow till they be four year old; they are taken with, and by musick. In a Borough in Tuscolum they came together to their meat at the blowing of a trumpet. They know how to confound the hunters by their footsteps in marshes. The females, though many in a herd, fly with their pigs, if they see a hunter; but if one of their pigs be hunted, they fly not, not though one be alone, but seee will rush on the huntsman, they whet their teeth ere they fight: though they in combat among themselves, yet if they spy Wolves, they combine against the common foe, and hasten to help as soon as they heare the cry. *Fulvius Hirpinus* was the first of the Gownd-order that had a parke for wild Boars, and other wild; and not long after *L. Lucullus*, and *Q. Hortensius* imitated him. How favoury meat they are is well known. *Servilius Rullus*, father to that *Rullus*, who in *Cicero* his Consulship proclaimed the field, or Agrarian law, was the first Roman who set a whole Boar on his table at a feast. Some such were a thousand pound weight, that the Romans had to their suppers; thence called *Military*, from their weight. *Consul Apicius* about the manner of feasting them. The flesh is much better then

Ælian.
1.17. c.31.

Engend-
ring.

Antistode.

Pin.

Pin. 1.8.
c.27.
Var.

Pin. 1.8.
c.51.

Ug.

Lampid.
in Heliog.

Gefner.

Diffi-
culty.
Nietensb.Anton.
Herrera.Petr.
Simon.

common porke, foot digested, and very nourishing, begetting a thick, and gleyvy juice. Heliogabalus for ten dayes together shewed on the table the paps of sowes that had newly farrowed, three hundred a day. On the day of Lentulus his insatiment, when he was made Flamen, he had at his supper such pappes, and teats, with loyes, and heads of brawn. Wild Boares have also their place in Phisick. The brain with the blood is commended as souverain against serpents, and carbuncles in the privities. Bacon boiled, and bound about broken parts, suddenly, and strangely fertles them; heals men annoint with the fat of rofes. The powder of the cheek-bones heals spreading sores. The teeth shavings disperfes the pleurisy. The lungs mixt with hony some put under their feet, when hurt by a strait shoos. The liver rayves from a lethargy, and helps mattery ears if drop'd in. Drunke in wine, fresh, and unfaked it stays a loofnesse. The small stones found therein powdered help the stone. The galle warme dissolves swellings; the ashes of the hoof burnt sprinkled in drink provokes urine. The claws burnt, and bruised helps those that pisse abed. The dung dried, drunke in water, or wine, stanches blood, eases an old pain of the side, taken in vineger helps ruptures, and convulsions, and parts out of joynt with a sere-cloth and oyl of rofes. Fresh and hot it is good against running of the nose. Kneaded with wine, a plaister of it draws out what sticks in the body. Powdered, and seared, and kneaded with grasse-hony, it helps the joynts. Men pour the pisse into mattery eares. The bladder boyled, and eaten helps those that cannot hold their water. See more in Gefner. The Indians have a wild Boare of a strange nature on their mountains, they call Koya Metl, and by six other names, like ours, but lesse, and not so handsome, with the navell on the back, and about the reins, strange to behold, pinch it, and a watry humour gushes out; yet it is properly no navell, but a kind of soft gristly fat, and under is nothing but as in other beasts, as is well known by the dissecting of him. Some thinke that he breaths that way. He is noysome; he gnashes with his tusks horribly, and is leaner and slenderer then ours. He is fierce. The huntsmen climbe trees; a herd of these Zaini bite at, and teare the body of the tree, not being able to come at the men, who from above wound them with bore-spears. They go in herds, and choofe a leader, and as men report, the least, and vilest of the herd, old, and feeble, nor part they company till he be slain, they will dy ere they forsake him. Some ascribe the like to the Bachiræ. They abhor the Tiger. The captain of the Zaini calls of his kind more then three hundred together, and conducts them, as a Generall his forces; with these he sets on the Tiger, who, though the fiercest of all American wild beasts, is yet overmastered by multitude, but not with a great destruction of the Zaini; many of whom have been found lying

dead with the Tigre, and but a few left to ring their knell. Hee bites shrewdly, when first taken; but when tamed, men take pleasure in him. His flesh is like porke, or brawn, but tougher, and not so sweet; his bristles are sharp, and partly-cloured, black and white. He feeds on acorns, roots, and other mountain-fruit, and also on worms, and such vermine as are bred in moyst fenny places. Their *teer* are some longer then other, their *tayls* are short, and their *feet* unlike those of ours, one of their hinder-feet having no claw. The flesh of the Indian wild Bores is moyster, and wholesomer then ours; but unless the navell of the Zainies be pared off, they putrifie in one day. Wee give you the picture of him, with the Jacacu Kaagora, of the Marckgrave. Ampliff. de Laet, had one very tame, but died with eating moyst feed, as it seemed. Valckenburg calls that navell an udder, but hee mistakes; since it is well known that the young suck not at that part.

Franc.
Korndt.Pinar.
Hercul.
H. N. 1. 2.
Leo Afr.
1. 9.
Pinar. 1. 32.
c. 11.

Elin.

Gendring.
Nietensb.
Elin.Aldrov.
Dug.
1. 1. c. 12.
Bellon.

TITLE II.

Of the water-cloven-hoofed Beasts.

CHAP. I.

Of the Hippotame, or River-Horse.

Following Aristotle, hether I refer the River-Horse; though others, and perhaps more properly, to another head. Hee is called an Horse, not from his shape, but his greatnesse. Hee is filed the Horse of Nile, and the Sea-ox, and the Sea-hog, that afore resembles an ox, in the rest of the body, a swine; called a Sea-Elephant, from his vastnesse, and the whitenesse, and hardnesse of his teeth; and the Elephant of Egypt, the Rosmarus, the Rohart, the Gomarus, in Pretebans country. Writers differ in describing him. Some say that hee is five cubites high, and hath ox-hoofs, three teeth sticking out each side of his mouth, greater out then any other beasts, eared, tayled, and neighing like the horse, in the rest like the Elephant; he hath a mane, a snout turning up, in his inwards not unlike an horse, or ass, without hair; taken by boat. Bellonius saw a small one at Byzantium, cow-headed, bearded, short, and roundish, wider jaw'd then a lion, wilde nostrills, broad lips turning up, sharp teeth as a horse, the eyes and tongue very great, his neck short, tayled like a hog, swag-bellied like a sow; his feet so short, that they are scant foure fingers high from the ground. But Fabius Columna describes him most accurately from the carcassee of one, preserved in salt, brought by a Chirurgion called Nicholas Zerenghus from Damiat into Italy; hee saith, that he was like an ox then a horse, and about that size, leg'd like a bear, thirteen foot long from head to tayl, foure foot and an half broad, three foot and an half high, squat-bellied, his legs three foot

and

and an half long, and three foot round: his feet a foot broad, the hoofs each three inches, groutheaded, two foot and an half broad, three foot long, seven foot about in compasse, his mouth a foot wide, snout-fleshy and turning up, little-eyed, each an inch wide, and two long, the ears about three; the bulke thick, the foot broad, parted into foure toes, the ankle hard of flesh, tayled like a tortoise: skin thick, tough, black. The nostrils like an S, snouted as a lion, or cat, with some stragling hairs, nor are any more in the whole body, in the under-chap, thwart half a foot long, &c. like a boar-tusks, not sticking out, but plainly scene, the mouth opening, &c. On each side seven cheek-teeth, thick, broad, and very short. In the upper-chap, which he moves like a crocodile, where with hee chews, stand six fore-teeth, aptly answering those beneath, &c. The teeth are hard as a flint, and will strike fire, so that by night rubbing his teeth, he seems to vomit fire. His proper place is said to be Saitice in Egypt. There are of them also in the River Niger, and in the Sea that washes Petzora. Barbosa hath seen many in Gofala.

He observed many there coming forth of the Sea into the pasture-grounds, and returning again: They feed also on ripe corn, and yellow-eares. When he is grown up, he begins to try his strength with his Sire, if he can master him, hee then proves his masteries with the Dam, and leaves his Sire; if he offer to resist, he kills him. They bring forth young on the dry land, and there brings them up: They are so fruitful, that they teame every year. He comes out of Nilus into the fields, and having

filled his belly with corn, he returns backwards, that the husbandmen may not surprize him, or by his averle footing to amuse the hunts-men; since he is as harmful as the Crocodile. He being overburdened with his own grosse bulk, he rubs himself against the canes, till he hath opened a vein, and having bled enough, he stops the vein with mud: whether he neigh, or no, is disputed.

The Ethiops eat him. About the promontory Cabo Lopez in Guinæa a Schipper of the Hage and his mates saw it; and in the town Ulibet they saw many of their heads, wherein were teeth of a wonderfull bignesse. One Firmus Seleucius eat an Hippotame. They are also medicinable; the Egyptians use the teeth against emrods, shut or open, tying them on, or wearing a ring made thereof. The Blackmoors use it also as a preservative against a certain disease. Pliny extolls those teeth for a speciall remedy for tooth-ache; and the fat against a raging Fever. The ashes of the skin with water smeared, dissolves waxen-kernels. The skin of the forehead flakes lust: the stones dried, is good against the bite of a Serpent: the parts as otherwise also useful. Pausanias saith, that the face of his mother Dindymena was formed of the Hippotames teeth. Pliny saith, that the Painters use the blood dissolv'd in gum-water instead of red-lead. They that are besmeared with the fat, may safely go among Crocodiles. Some say, that they who are covered with the skin, are thunder free. Pliny saith, that the hide, especially about the back is so thick, that therewith strong spears may be shaped, and shaved by the turner.

Ulc.
Clutius.

Capitol.

Diofcor.

Tuli.
Capitol.

H 3

THE



THE
NATURALL HISTORY
OF THE
FOURFOOTED BEASTS.
THE THIRD BOOKE.

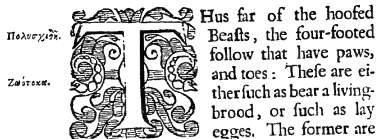
Of the Clovenfooted, Fourfooted Beasts.

THE FIRST TITLE.

*Of the wild Beasts with paws that
bring their young alive into the
VVorld.*

CHAPTER I.

Of the Lyon.



Thus far of the hoofed Beasts, the four-footed follow that have paws, and toes: These are either such as bear a living-brood, or such as lay eggs. The former are either wild, and never wholly tameable; or those that may be tamed, at least in some measure. Among the former are reckoned the Lyon, the Leopard, the Ounce, the Tiger, the Bear, and the Wolfe.

We begin with the Lyon, whose name in Latine is *Leo*, in Gr. *Leon* seems to be derived from *Laos*, to see by reason of the rigour of his fight. The young are called Whelps.

Of the Numidian Bear, or Lyon, see *Pliny* and *Lipsum*. His head is of a middle size, his forehead square, lofty of brow, and toward the nose like a cloud; the eyes not hollow, white; lips thin, his upper, and lower jaw alike, stiff and great necked, and reasonable thick, strong of breast; the part of the back against the heart broad, slender flanked, thighs stout, and sinewy; the hair yellow, not much curling. The forefeet are parted by five toes, the hinder by four. The Lyoness is differenced from the Lyon, by the smoothness of her neck and shoulders, the male having there a thick hair, mane, as also by two teats in the midst of their belly, whence we are not to argue the number of Whelps. She hath little milk, so that the

Whelp must have other food, but little serves the turn. As for the inward parts, the Lyon hath exceeding strong temple-muscles, that enable him to bite so hard; his tongue is sharp, and rough; his bowels are like a dogs; his milk is black; his neck consists of one bone, but made up of many turning joynts; his bones have little, or no marrow in them, which even melts away. The inward passages are so narrow, that one would think there were none.

Lions grow up in Europe between the Rivers Achelous and Nessus, but seldom breed in Europe, but in Moordland, Parthia, Massylia, India, Marmarica, Caspia, Lybia, Getulia, Syria, (where are black ones, if we credit *Pliny*) and in Tartaria, faith *Paul Venetus*. In Caragol the Country-men for fear of them are faine to arm themselves, when they till their land. In the Wildernesse of Angad by Tellefin, they prey on herds of cattell, and on men. And by Feez, many that make Char-cole in the Woods, are devoured by them. They are in the Kingdom of Senega, on a high mountain near Aden; and in the Holy Land, and elsewhere. *Martyr* faith, that in Caba they are harmelesse; *Aelian* faith that Agla, and the adjacent parts, breed Lyons so timorous, that they are grown into a Proverb.

They are of a most hot and dry complexion that proceeds from the extreme heat of the heart. Hotter in the foreparts than the hinder. Nor are all alike fierce, as the mountain Lion is not so fierce as others. They feed on beef most, but hunger makes them prey on Camels, mans and birds flesh. Therefore many in Africa were seen by *Polybius* & *Aemilian* to be crucified, that the rest might by that sight be frightened from killing of men; many things they devour whole without tearing, which within two, or three dayes they perfectly digest.

It is not certain that they will feed on carcasses. It is thought that they refrain either because of the stinke, or in pride. Some say, that having eaten their fill, they hide the reliques, and breath thereon, that other wild

lighting

lighting thereon may not eat them. They venter on young Elephants, but if the Dam come, they fly. A whelp will forsake the teat, and prey on weaker cattell, and feed also on palms. He is sparing in drinking; he can refrain three dayes, especially in summer; in winter he drinks more. They couple averle, as all other beasts that piss backward, and commonly in spring-time, when they fight cruelly, eight, or twelve following one Lioness. The first of the year being past, in hot weather, the males forbearing, the Lionesses couple with Pards, whence come Leopards; and with Panthers, whence comes a brood without mane, & with Hyænaes, whence the Crocuta, and sometime with the dog. They alone among all four-footed crooked clawed beasts bring forth their yong seing, whence called Sun-beats. They whelp within six months an imperfect brood; not that the yong tear their passage, but for want of nourishment, some say they are whelped no bigger then a weefell; seldom above one at once, sometimes six. There have been eight found in a Lioness taken and killed.

At Florence an old one beyond all expectation whelped six. In Syria the Lionesses bear five times, first five, then four, then three, then two, then one. He loves a Dolphin, both of them, when old, and diseased devoure an Ape to help them. He hates a womans secrets, on the sight whereof he runs away. He cannot abide a bristled Sow, nor a Wolfe, nor a wild Ass, nor a Bull, nor an Ape. If he but tast of the herb Leontoposus, he dies, so strong it is. Some count it a beast. The Greeks of old were so confident that the Lion feared the crowing of a Cock, that they thought verily, that by sacrificing Cocks, they called Cecrops's soule forth, which they beleaved was transfigured into a Lion. Some conceive that the red, glittering sparkling Cocks-comb frights him. Camerarius knew the contrary, who relates that in the Duke of Bavariaes Court a Lion by strange leaps got into a neighbours yard, and devoured both Cocks, and Hens. In Africa the Gnats drive them away. He will not touch a man rubd over with garlicke; or is taken with a heaviness if he unawares tread on the leasns of Scilla, or Seaonion, or of the Ilex. The creaking of wheels frights him. A bright table-cloth drives him away. He abhors fire, and dares not come neare it. They are thought to be long-lived. Some have been taken without teeth, and some with perished knags. The Lioness big with young will fight with the males that would couple with her: they are said to look downwards, that the hunting spears may not amate them. They sleep in the open aire, and with the eyes open, because their eyes are so great that the lids can hardly cover them; and while they sleep they wag their tayl, that they may seeme awake. Their voyce is roaring; the Latines expresse it by divers words. As for their nature, one African Lioness set on two hundred Horsemen, having received her

deaths wound, and would not leave her whelps. They cannot endure to be scorned; the wantonness of the Apes playing vexes them. He goes alone to hunt his prey. He looks you in the face, and fears not. His generousness appears in danger, when he despises weapons; he slights dogs and hunters makes a stand in the open field, when pursued; if he enter a thicket, he rusheth through with a disdain that he should take covert. He pursues his prey leaping, but walks away when hunted. He observes who wounds him, & singles him out in a troop, and sets on him; He will make him sure, who aims at him, and misses; as one did to a yong man in Iubæes army. One hurt with an arrow by a passerby, revenged it a year after, tearing the same man, lighting on him againe amidst a troop of men.

Another endeavoured to pearce a Lion with a lance, and missing the Lion, griped with his paw his helmet, which saved his head; while they walk they withdraw their claws, that they may not be blunted. They go not ftrait on, but sideling, shifting their steps to amuse the chafers. No doubt but they may be tamed. Onomarchus, King of Catana had them for his familiars. One used to sit like a dogge by the side of John II. of Portugall. In Adonis Temple in Elimeæ, they fawned on all that entred. Berenice her Lion licked her face. One converts with a Ram, as if they had forgot their natures. Marcus Anthony at Rome coupled them to draw a chariot, hee was the first that did so, and it seemed ominous, that in civill warre, when the Pharsalicks field was fought, that generous spirits should be subdued to the yoke; and it was a monstrous show above those monstrous calamities, that hee should then ride so in state with his Mimed Citheris. Hanuo that famous Carthaginian, was the first who durst familiarly handle a Lion, which rendered him more suspected both of craft, and cruelty. There are examples also extant of their gentleness exprest to diverse, who have met them by chance. Mentor of Syracuse, lighting on one in Syria, was astonished, and would have fled, but the Lion met him at every turne, fawned on him, and licked his footstaps; at length hee spied a swelling, and wound, and a thorn, whereof hee eased him. Which is kept in memory in a picture at Syracuse. Also Elpis a Samian arriving in Africa by the shore-side, a Lion came with open mouth, hee clomb a tree, calls on father Bacchus, having no hope but in prayer: the Lion left him not, but seemed to crave his pity and ayd, having a bone sticking in his teeth, that put him to excessive pain, and drew lamentable cries from him; the man tooke heart, come downe, plucked the bone out, and they said, that in gratitude the Lion hunted, and brought prey to that man, so long as the ship rode there. The story of Androdras also is well known, the Roman slave, and the Lion. Seneca also was eye-witnesse of a Lion, that in the Amphitheater owned a man,

destined

Name:
Engraving:
Lion:
Lion:

Defcript.

Arist. H.
A. l. 6. c. 37.

Galen.
part. l. 9.
cap. 19.

Aristot.
A. l. 1. g.
c. 80.

Scall.
A. l. 1. z.
cap. 12.
Falopius:
Michael:
Epheus.

Place:
Aristot. H.
A. l. 8. c. 2.
Leo At.

Temper.

Gefinit.

Food.

Aelian. H.
A. l. 2. c. 1.
Aristot.

Slept.

Aelian. H.
c. 3.
Strabo.
G. l. 1. R.

Voyce.

Nature.

Leo Afr.
l. 9.

A. l. H. A.
l. 2. c. 17.

A. l. H.

Mart.
Epi. l. 9.

Phil. H.
c. 73.
N. l. 8.

Gel. not.
Antic. f.

defined to dy there, and protected him from the assault of other wilde beasts. The Lion alone among all savage beasts, is gentle to suplicants; sparing those that ly prostrate at his mercy. Hee will assault men first, and spare women; and unlesse hee be very hungry, hee will not meddle with infants. In Lybia they believe, that they understand requests. A Getulian captiveth is said to have escaped the fury of many Lions, by pleading thus for his self; alack, I am a silly woman, banished, weak, and a petitioner to the noblest, and most generous of beasts, that ruleth the rest; thou canst have no honour in such a worthles prey. It used to be an hard task to take Lions; the common way was in pits. A Getulian shepard mastered a Lion, by casting his coat on his head; which was also shewen in a Theatre, where a Lion being so muffled, was ridiculously and incredibly bound, without making any resistance. It seems all lies in the eyes. There have been of old Cannibals, that would eat Lions flesh, all but the milke. In Physick they are of admirable use. The *Dogge-tooth* helps children in breeding their second teeth without pain, being tied about the neck. The *heart* bruised to powder, is good against the falling-sicknesse, and quartan fevers. The *fat* washt, put into the ears, cures their maladies, and smeared on parts frozen, happily helps them; they use the same for hard swellings in the skin, and kibes. It is said that those that are nointed over therewith, may walke safely among other wilde beasts; and (if you will believe it) come in favour with Princes. The *flesh* is commended by Sextus, for driving away feare, and phantasies. The *blood* helps the cancer. The powder of the *bones* with *Agrimony*-water, helps a fever. Sitting in the *skin*, eases the Emrods. Shoes thereof, ease the Gout. The *dung* with oyl of roses, is good face-phicks. Wee need not to say much of their use in recreations, plays, triumphs, and punishments. Heliogabalus delighted in them, when they disarmed of their claws, and taught them to sit at table. Augustus made them so tame, that they harmlesly played with hares. Bellonius writes that hee hath been an eyewitnes thereof. At Constantiope, when Q. Scævola was Edile, hee in his shewes presented diverse Lion-fights. L. Scylla, who was afterwards Dictator, in his Prætorship made a shew of an hundred male Lions. After him Pompey in the Cirk shewed D C, whereof 315 had thick manes. Cæsar the Dictator, 400. There are many differences about them among writers. The Lions chiefe honour is in his hairy shoulders, and neck, which right bred Lions in time grow too, but mungrells want. And the manes also differ, some are longer, and more curled then others. Some are much fiercer then others. In Africa, and among the Abyssines there are yellow as gold, white, and black ones. In Lybia party-coloured ones, with red mouths, and black and blew spots like flowers. In West-Indies they in-

cline to ash-colour. Those of America are not so vigorous. In Puma in Peru are none so great as those in Affric; they are more timorous, and harmlesse, if you let them alone, degenerate, dusky rather then yellow. The Indians meet by troupes, and hunt them, and kill them with stones and clubs. The Barbarians climb trees, and thence gall them with their spears, and arrows, they make merry with the flesh, and feast on it; reserving the fat for medicines, and with the bones they sport, and daunced. A Spaniard having taken a tree, kept of an huge lionesse, having pearced her through with foure arrows, in her belly were found two Tiger mungrell-whelps, as appeared by the spots. Hollanders have eaten of Sea-lions.

There are other wild beasts that come somewhat near a Lion, as the Mitili, not hairy as our Lion, but a kin to him, whelped duskyish, after grows yellow, sometimes red, and whitish, bigger then the common Lion, (which may be from the nature of the region) and not so fierce. There is the Quamitzli, hee is tamer, and nimble then the lion; some Spaniards tooke him for the Panther. Then the Macamitzli, taking name from the Hart, and Lion; and the Cuitamitzli, so called from the lion and wolf, thicker, but gentler, and lesse then the lion; Hee lives by Hunting-deere, and crotales; and when full, hee yet kills any harmfull creature; when he hath filled his belly, hee sleeps two, or three dayes, till he is hungry again. Then the Talmatzli, lesse then a cat, but faced like a lion, his looke and fiercenesse seems strange in so small a body. There is the Cacamitzli, like the lion and cat, living among the bulrushes, hee is but foure spans long, small, yellow-haired, but long, small eared, headed like a Swan, long and rough-tayled; so fierce, that hee sometimes dare set on a Stag. In Mexico, Mixtli, signifies both cat, and lion, whence that beast hath his name. Hee lives also among the Pannicenses. Some of these kinds it may be are reducible to the Baboons, or Bavians.

CHAPTER II.

Of the Libard, or Leopard.

Called Pardus from *Ardoe*, to besprinkle; or *Arbaloe*, to defile. Leopard, Pordalis, *Arbaloe*, the male; the shee, Pardalis, some say, Panther; (yet to be distinguished from that beast that resembles a spotted wolf) called Panther, from his being endued with all kinds of savagenes, never to be tamed; or, because hee seems to be adorned with the colours of all kinds of wilde beasts, called *Thronon*, from his spottednes; small-faced he is, wide mouthed, his eyes lile whitish, and wandring; forehead long, ears round, neck long, and slender, his breast hath small ribs, long-back'd, buttocks, and thighs fleshy, belly-squat, colour divers, his whole body unproportionable. Having foure

paps in the midst of the belly, five toes on the fore, and foure on the hinder-feet. His eyes glister more in the darke then any beasts; but dull in the Sun. His skin is enameld with black in white, and gold in darke colour. In Hircania are many painted with small round yellow, blew, white spots like eyes, and some like increasing moones. As for the inward parts, hee hath a tongue like a gutter-tilt, exceeding sharp teeth, and claws, an heart great in comparison, with beats of his bulk, little fat; it being spent by his excessive heat, his bones are somewhat thick. There are none of them in Europe; in Affric many; there being but few waters, many wilde beasts meet at the same watering-places to drinke, where they couple promiscuously; whence the proverb, that Africa feeds dayly novelties into the world. They live also in Asia, Pamphylia, abounds with them, and the Province of Comerus, and the Kingdome of Bengala, and Mount Caucasus, the sent of whose odoriferous herbs invites them thither. Salomons song intimates that there are many in Mount Hermon, which the Amorrhæans call Saur. Their food is most dogg-flesh, and lambs, and Apes, whom they take by faining themselves dead; then the Apes drawn by the sent, come of themselves, and are surpris'd. They assault men also. They couple oft with the lion, sometimes with the dog, and with the wolf; they whelp more then one at a birth, as appears by their many paps. Idore fables (Orig. l. 12. c. 2.) that the whelps prevent the season, and through impatience tear their passage out of the dames belly. They hate mankind so deadly, that it is said, they will tear the very picture of a man. Some say, the fight of a mans skull makes them runne away. Some conceive that it is the face that hee most abhorreth; for the King of France his beast-keeper, being sent to hunt them, could take none without turning his backe towards them. The like enmity he holds with the cock, and serpents, so that hee will not touch one that is anointed with cock-broth. Nor will serpents hurt one in a leopards skin. Some say, hee will not come near a wall, rubd over with garlick. There is such an enmity between him, and the Hyæna, that, if their two skins hang together, the Leopards hair falls off. Those in the hilly-part of Armenia, are much taken with the tears of Storax, distilling from the tree, the sent whereof the wind brings them. His voyce is roaring. He walks as the lion, withdrawing his claws, and runs aside to amuse himselfe; onely for prey hee stretches out his claws. In sent hee excels all beasts, but the civet, and musk-cat. He hath wiles, when hee waxes old, to inveigle beasts to come to him, and then preys upon them. By his sent hee invites them; and no wonder, for wee see dogs diverted from their chase by sents. As for their nature, if they aile any thing (as they are sometimes distemperd, and mad, or have eaten the herb Pardalianche) they betake themselves to wilde Goats-

blood, or many ordured; they ever lead their whelps, and defend them to the death. They after whelping keep their Den, and the male provides food. They feldome are wholly tamed. After the death of a King of France (Francis) the Kings Leopards got loofe, a male, and female, and tare very many about Orleans; and there were womens carcases found, whose breasts only they had devoured. But it is memorable that is reported, of a Leopard lying by the way, and seeing the father of one Philinus a Philosopher, came to him; hee affrighted stept back; hee fawned on him, seeming to make great moane, hee pulled him gently by his coat, inviting him to follow her, hee did so; hee led him to a pit, into which her whelps were fallen, hee helped them out; hee jounced attends him with her whelps, till he came to the borders of the wilderness; and after her fashon exprest her gratitude towards him; which in man is rarely found. Read also in Ælian of the kid that a Leopard would not touch dead, because alive it had been his play-fellow. Savages use to feed on them, as they between Caucasus, and the river Cophena. In India also, where they feed them twice, the better to digest them. They are also of use in Physick, as the brain with the juice of rocket. The right testicle helps womens terms, saith Cardan. The blood helps swollen veins; the fat flecks the skin. The Moors use the skin for cloathing; the Ethiops for armour. They were of old presented in the Cirk at Rome. Scaraus shewed fifty of them. After, Pompey shewed four hundred and ten; Augustus four hundred and twenty. Some make three kinds of them, the Panther, the Pard, and the Leopard; some four, Pantlers Pard, the Leopard without mane, sprung from a Pard, and a lionesse; and the spotted one, the issue of a Pantheresse, and a lion. Some call the males Variz, and Pards, as those in Affric and Syria. Some difference them only by colour, and brightnesse. There was an order of Senate, that transporting them out of Affric into Italy; but Cneius Aufidius the Tribune for all that allowed it to gratifie the people in the Cirk-shews. Perhaps we may aptly refer hether the beast, that the Spaniards call Dazypodes; and the Indians Theotochtli; he is about the bignesse of a Tumbler, round, low, thick, small-eared, Lion, or Cat faced, with lively eyes, and red circles, thick thighed, crooked claws, duskyish hair about the neck, white about the belly, the rest of the body ash-coloured, everywhere black spotted, the muzzle, and tayl short, the tongue rough, rather grumbling then roaring, and of incredible swiftnesse. Hee lives on the Terrocamin hills; hunts Deere, and other beasts of that bulke, and sometimes men. The tongue is so venomous, that a lick on the ey of his prey, blinds, and kills it. He covers the carcasses of the slain with herbs, hay, and greenward; then climbs the next trees and houles; when the beasts with in hearing, by instinct of nature, come at the call, hastning as to a feast, and fill themselves

together with the provided prey : Then the Tococtochi comes down for his share, and not afore knowing that should he eat first, all the guest beasts should be poisoned. So civil, charitable, and providently kind is he to the rest. None, but can profit others, if he will. We stand not so much in need of power, and riches, as of a good heart to do good. Most rich are unprofitable it were well, if they were not mischievous; but all that are benevolent can in some degree be beneficent. Love is ever liberal.

CHAPTER III.

Of the Lynx, or Lyxard.

Name.
Lynx.
Lynx.
Scaliger.

Plin.

Descript.
Scaliger.
Gefner.Anibro. in
Digit. 1.3.
cap. 3.

Galen.

Place.
Ovid.

THis wild Beast hath his name Lynx, from Lykes, light; he being the most quick-sighted of all creatures: Called also a Deer-wolf, not from his shape, but his greediness, and preying on deer. It is not the Thois, as we shall see hereafter. I question whether it be the Chaus or no, that the French call the Rapihus. Pompey shewed one in his plays, faced like a Wolfe, and spotted like the Pard. He is small-headed, his eyes glitter, his face cheerful, hath tears on the breast. The spots are more distinct, and round on the Hec. The skin from the nose-tip to the taylor is three foot, four inches long; the taylor seven inches long; the neck-skin, half a foot, the back-skin fifteen inches about, the thighs afore fourteen, and the hinder twelve inches. The Hair soft, and downy, the back hair tips bright, the belly middle white, but varied with black spots, most, near the belly on the sides; the ears little, and triangular, and round black and faggy, a few white hairs intermix; the beard like the Cats, with white bristles, the feet very taggy; the forefeet having five, the hinder four toes; the taylor blackish at the end, of the same thickness everywhere; the temples hath weak muscles; the skull three sutures, or seams, armed with twenty teeth, whereof twelve are fore-teeth, but the first, and six both of the upper, and lower jaw, are lesser than the middlemost, as we observe in Weazles, four dog-teeth longer than the rest, ten grinders, four in the upper-jaw on each side; the first next the dog-teeth of a trigon figure, the last parted and broad; six in the under-jaw, the second shaped like a lyly; the third broader and greater, cloven in the midst, sharp-pointed. The lower jaw is little, because hanging, and not employed in chewing. The foot armed with sharp, clear claws covered with a thin skin, like those of the Eagle, and Vulture; the under part hard-skinned.

They are found in the Eastern parts, thence brought into Europa; Also in the mountains of America. Those in Lithuania are black, and marked on the back with handsome spots. They are also in Poland, Muscovy, Swethland by Helsing; they call them *Rattluchs*. Also in Wittemberg, where one set on a country-

man, who knocked him down with his bill. They feed on flesh, especially of wild Cats, whose flesh is sweeter. They love also beasts brains, and lurk on trees, and catch at beasts as they passe by, fastening their claws on their necks, and hold them till they tear them, and eat their brains. Some say they would not, but only fuck the blood out. In Scandinavia are few beasts that they prey not on. They engender as dogs and bitches, and as Hares admit of superlatation. They bring at birth two, three or four. No beast is so sharp-sighted; whence it is fabled that they can see through a solid body. They are so swift of foot, they run headlong. Pliny faith their piss congeals into gems like carbuncles, sparkling like fire, called *Lyncurium*, like a kind of amber. They themselves know it, and as out of envy, bury their urine, which hardens it the sooner. Some say it, and some deny it: Some grant it to be an Amber, and that it will draw and take up fethers; but count the other relations frivolous. They are so forgetfull, that if they spy another prey, they forget what is afore them; but that is rather their overgreediness. In summer they call their hair, but are shaggy in winter; which Odonus affirms of all faggy beasts. *Lucan* faith that their bowells are as venomous as the fume of a mad Dog. They are of some reasonable use in Physick. *Evonymus* mingles Saxifrage with the blood against the stone. *Wekerus* makes an ointment of the fat for the same grief. *Crallius* makes salt of the stone, and crabs eyes. The claw of the greater toe of the right foot, shut in silver, and worn, helps convulsions. In the Isle Carpathus, the claws, and hide, and drinke the ashes against running of the reins; and sprinkle them on the body to cure itch; and their piss is good against Bear-pissing, and fore throats. A skin was sold at Bononia for 120. pound, some are greater, and some lesser. In Italy they shew two kinds of skins; a larger, and inclining to white, thought to belong to the Deer-Wolf; and a lesser, yellowish, which some think to be the Cat-pards.

CHAPTER IV.

Of the Tiger.

THe name of this beast is imposed by the Medes from his swiftness, they calling an Arrow Tigris. Some say he is of the bigness of a Dog; Near-chus, of a Horse. There hath been a skin seen five foot long. He hath fiery glittering eyes, a short neck, as other beasts that feed on grass; his claws crooked, teeth keen, feet cloven. There is great store of them in the East, and South, in India within Ganges, and Hyphasis; on mount Caucasus, by the Bessing near the Peninulei; in Java, where the fear of them makes lesse Gum Benjuin; also in Bengala, and the hill of Peru, and ever in Taprobana. They prey on, and devour all kind of

of living creatures; they are oft too hard for Elephants; they draw Mules away by the legs, as also Sheep, Oxen, Dogs, &c. which they tare; not sparing men, but they love kids flesh best. So greedy they are, that if they see but blood, they devour the whole body. Because no males are ever taken, some fancy they are all female, and engender by the wind, because of their fleetness. They couple averse, and whelp many at a birth. They lust also after Bitches, which men ty in woods which they haunt; these they either tare, or couple with.

The first and second brood from this mixture, the Indians think too fierce; the third they bring up. *Lincolnt* relates, that in West-Indies they do the Spaniards no hurt, but insist the Natives; that in Bamba they will not touch white men, but assault the blacks; yea, if they find a black and white man sleep together, they spare the one, and fatten on the other. They are enraged at the sight of an Elephant; the sent of Ox-dung drives them away; the noise of a Drum mads them, so that they wound themselves. Their voyce is called *ramatus*, a kind of roaring; they change it, and gnash the teeth when enraged. They are of an admirable fleetness; the young ones are taken, and fresh Horses are layd to carry them away, because the Dam finding her Den empty, her Welps gone, hatters headlong by the fence after them, (for the Hec regards not the brood.) He that seized the young upon the approach of the Dam, casts away one of them, (for they bring many at one whelping) that she snatches up in her mouth, and hides back with it to her Den; then hatters in chase after the rest, and they being shiped, she raves, and complains on the shore. This is the opinion of the Ancients, but the Modern report the contrary; that the Tiger is heavy-paced, that a man (much more other wild) can out-runne them; that the Boor, wild Bull, Deer, senting them, run away, and escape their clutches; wherefore the Tigers lurk in sedgey places, among reeds, and with a side-leap surprize beasts, as a Cat Mice and Dor-mice: So also they seize on men; and if with over-greedy hast they misse their prey, and leap wrong, they retire softly, roaring; and finding themselves detected, they go away. This I have out of *Bontius*, who being dead, it is said to think how many exotick rarities about Plants, and Beasts died with him. The Tigress is very fond of her Welps; wherefore upon sight of a man, the forthwith removes them; and if they be taken away, she cruelly rages at whatever comes in her way, and dies mad. Now, though they are for the most part untamable, yet they have been tamed, and obeyed a whip, & her keepers have dared to kiss them. *Augustus*, *Q. Tubero*, and *Fabius Maximus* being Consuls, first shewed a tame Tiger in a Cage at Rome at the Dedication of *Marcellus* his Theater. *Claudius* also shewed four: Under *Gordian* ten were seen at Rome: *At Aurelianus* triumph four, *Helioabalus* yoked

them together in a Chariot. Yet they never lay their fierceness so aside, but that they start out, and shew their savageness, when we least think of it. When they have been led to be fecen, men have surrounded them with bells, to warn the beholders from being surprized by them. Sometimes chains cannot hold them. Men must stupify them with juice of Mandragora, and Opium to prevent doing harm, when led along the streets. The Indians are their hind-parts, and consecrated their fore-parts to *Phabus*, holding them up toward the rising-Sun, but ate them not. The Congitani are all, but the parts under the arm-pits, or mustachio, because whosoever did eat them ran mad; wherefore it was ordered by *Edict* that none should be allowed to sell the skins without those parts. *Ledejina* the Spaniard thinks the flesh to good as Beef; the Cerebrarians wear the teeth into Garlands, and think the wearing makes them courageous.

Some count the Manticora a Tiger, that hath three rows of teeth, and hairs in his tail as sharp as darts. Among the Prasys are said to be Tigers twice as big as Lyons; they differ in fierceness, and shape, and bulk. The lesser sort the Indians call *Tilaco-occelotl*, or little Tigers, marked with black, and dusky spots, and not pale, and bright as others commonly are. The Perunians call them *Uruuncu*, as Bears *Aberonocus*; they are fiercer then Lyons, and are greedy after Indians, seeking them in their houles, and cottages; and if they keep not their doors shut, then sink in, and snatch an Indian away in their mouth, as a Cat would a Mouse. Nor can men take sanctuary in trees, for they climb them, and fetch men down, and rend them to pieces. In the expedition of *Tederman*, a Tiger assaulted a troop of Souldiers, and in the midst of them tare a Spaniard, and three Indians, and escaped away unhurt: Yet swaddle them about the reins with a stick, you cool their courage, and master them; there is no other way. The Indians dread no beast more, and even worship it.

The Devil very oft confers with them in the shape of a Tiger: their claws are thought venomous, and the wound they make incurable. The Barbarians reverence, nay dread this beast lesse, since the Gospel came amongst them. They are taken in nets, and in some places in traps. In Bengala are the fiercest found, and implacably revengeful. One hath followed along the shore-side thirty mile a Ship, wherein any have been embarked who wronged her. Cruel to all they meet, man or beast: Nature yields some prevention to this mischief. A little beast ever accompanies the Tiger, and by constant barking discovers where he is; and both men and beasts take the warning, and hide themselves, or run away. They are most greedy after mans-flesh, especially the black-Moors, and know their ships, chasing them twenty leagues together, watching if any come ashore, to devour him. By night they leap into ships, and surprize, and destroy the Mariners. To

give a memorable example of what happened to one of our men, while we were trading in Bengala. A certain Moor, a servant dreamed that a Tiger snatched him away; the night after he hid himself in the prow of the ship; being asked the cause, he told his dream, which the same night was verified; for all being asleep, a Tiger leaps aboard, touches not any else, though thirty lay asleep in the ship, but seizes the wretched Moor.

The lot of another was Luckier, as divine providence ordered it; hee being ashore, not far from the ship, a Tiger assaults him behind, and a Crocodile out of a river afore; the Tiger, to prevent his foe, and bear away his prey, for overhaist, runs quite beyond the man, and running against the ships-side, falls into the Crocodiles jaws, and so the man escaped. It cannot be said how those of Bengala, dread the Tigers rage; whence they call him by sundry names, fearing, that, if they should call him by his own name, they might be torne in pieces. In Brafil there are multitudes of them, and those hungry, ravenous, dreadful, and swift, and very strong. But once full fed, they are said to be so sluggish, that common curres can drive them away. Gluttony destroy not mankind alone. In new Spain they lurk in trees by rivers-sides, watching the Crocodiles, and leap down, and surprize, and kill them. Time was, when Darian was as much pestered by Tigers, as Nemæa was with Lions, and Calidonia with wilde Boares. In six month there passed not one night free; wherein a heifer, horse, dog, or hog, was not devoured in the town-ways; their herds, and flocks were wasted, not a man could with safety feed forth a doore; especially when the Tigresses had whelps, when hunger forced them to sease man, and beast. At length necessity put the natives on this invention, to revenge, and save the blood of them, and theirs; they observed strictly the Tigers track from their dens, and digged a ditch, cast up light earth, covered it with hurdles, fastened sharp stakes at the bottome; there came a hee-Tiger, hee fell in, stuck fast on the stakes; the Indians threw down great stones on him, and dispatched him in the pit, they cast many darts at him, which with his right paw hee shattered into a thousand pieces, and chips. If when half dead, and bloodlesse, hee bred such a terrour in the beholders, how dreadful, think wee, was hee when loofe? One John Ledesina a Spaniard, who was present at the busines, reports, that hee ate his share of that Tiger, and that it tasted as well as beef. Ask them, who never saw a Tiger, how they know one, they tell you, by the spots, fiercenesse, nimblenesse. When many have seen Leopards, Panthers, Onces so marked also; the male-Tiger dead, they traced his footsteps to his den, where female also dwelt; shee absent, they tooke away two sucking whelps; changing their mind, and that they might fend them to Spain, when bigger, they fitted iron-

chains carefully to their necks, and left them there to the dames nursery. A few days after returning to the den, they found them not, supposing that the dame in a rage had torne them in pieces, and taken them away, that no man might have them; for they affirme, that they could not possibly be tame, alive out of the chains. The skin of the male was stuffed with dry herbs, and sent to Admirantus, and the Governors of Hispaniola. See more of this subje&t in Nieremberg, and Marckg. H. B. l. 6. c. 10.

CHAP. V.

Of the Beare.

THe Latines call this beast *Ursus*, from *urgeo*, to force, or drive, or urge, as they doe their prey, till it fall afore them; or from *ursus*, because they lick their cubs into shape, &c. The Greeks *Arktos*, from *Arktos*, to drive, or *Arktomai*, because hee passeth the winter without eating. His body is grosse, and unwieldy, and (some say) ever waxing; some have been found five cubits long, and as broad, beyond any ox-hide; and such a one was presented to Maximilian the Emperour, at the Baths of Baden. The skin is thick, and shaggy, the teeth hidden: the mouth long, eyes quick, the feet like hands, his chief strength lies in his arms, and loyns; sometimes they stand on their hindfeet, their tayl is short, having foure paps, a large stomach, and gut; when taken in their dens in winter, sleeping, and being unbowed, their stomach is empty, and clinged together. Galen observes sinews in them, so turning, as in any other beasts are hardly seen. Their heads seeme weak, especially afore, (which in a Lion is strongest) therefore falling down in any precipice: they tumble down with their arms, covering their head. While they keep in their coverts, small drops of blood are only about their heart, the rest of their body is bloodles. Grease, and fat they have, but no marrow, saith Pliny. They are found almost all the world over; most are in Poland, Germany, Lithuania, Norway, and other Northern parts, especially in Nova-Zembla. In England are now none; nor in Candy.

It is a mistake that there are none in Africa, for the Moores wear the skins. They delight more in hills then plain land; whence it is that the Alpes so swarm with them, and those thout ones. In the mountains of Peru are many black ones; and Perues an Attick hill is famous for Bear-hunting. The Beare eats all kind of things; among plants, they fancy a red, and sweet berry growing on a bramble; and the herb Cuculus, a kind of Trifoyl, and a root that provokes sleep. A Cow-herd on the Helvetian Alps having spied afar of a Bear eating that root, after the Beare was gone tasting it, was so sleepy thereupon, that he drop'd down where he stood. When they come out of their holes

they feed first on the herb Arum. About Trent grows a thorny shrub with a white flower, and red berries, called Beare-bread. They climb trees, and eat the fruit, and pulfe, and hony, crabs, ants, and flesh fresh, or rotten, especially hony-combs. Jovius tells a merry story of a Boore in Mulcovy who slipping into a hollow tree up to the neck in hony, and living there two dayes with no other sustenance, a Bear came gently down into the same tree to eat hony, on whose rugged hide the poor man catching hold was drawn out. In Island, and the frozen seas they live on fish. They drink water, but neither sipping, as the sharp-toothed, nor gulping in, as the beasts, that have a continued row of teeth, but champing it. They are very venerate, since, because wild beasts, (excepting the Lizard and Hare) when big use not to couple, these are thought to hasten to bring forth their cubs the sooner by some force on themselves, that they may engender a new. It is reported that the males lust after young virgins, and that one tooke a mayd away of the Allobroge, and lay with her, and fed her with wild apples, which Philip Cofferus, Bishop of Constance, related to Gesner. Saxo tells that a race of Danilh Kings is derived from a Beare; and some say the fame of Gothilh Kings. They couple in February, or in the beginning of winter, not as other fourfooted beasts, but as mankind. Being with young, they hide themselves, and the males seemed to hold them in great regard. They goe 30 dayes, and bring one, two, sometimes five cubs together. They breed and bring forth in haist, which makes their cubs so ugly, and mis-shapen; little lumps of white flesh, without eyes, or hair, only clawed after a fashion, which they are said to lick into shape, and to lay to their breasts to cherish with their warmth, to bring life, and breath into them. But of late experience shews the contrary; and that is but a fancy, that Ursus comes from Orfus, begun, or unfinished. Above Trent one was taken in a vally, and ripped up, and all her cubs were found full shaped within her. In a library of the Senate-houfe in Bononia a young cub cut out of the Dams belly, exact at all parts, is kept in a glass-case. Camerarius his guess is not unlikely; that the bed wherein the cub is wrapped is so thick, that the dame is many daies licking it off, which occasioned the vulgar error. They hate mortally the Sea-ox, Horse, Boor, the Dead, and a Table-cloth. They abhor the Sea-calf most of all. The Horse can smell them, that never saw a Bear, and forthwith prepares to combate, and kicks him on the head with his hinder feet, mairting him more by sleight then strength. They are thought to hate the dead, because they will not touch a man layed at length with his face downward. Seneca saith, a Table-cloth incenseth them. Hemlock kills them, and the Bear called *Marcellum*, or *Confligo*. There is also a black fish in Armenia, the meal whereof sprinkled on figs if they eat it, is their bane. Experience shews that they delight in

musk. Their voyce is roaring or rather grumbling. Having tasted Mandragora apples, they lick ants. When they are qualmish, they go to Myrmelia, or Myre-hools, and fitting they loll out the tongue dropping with that sweet juice, lightly holding it so long, till they set it swarme with Pis-mires. Being wounded, they heal themselves with dry herbs. The Shee-bears after their helping in to whelp, coming into the light, are so dazed, that you would thinke they were stark blind. Because they are often hevy-fighted, they hunt so after hony, and that having itung their mouth with bees, they may be rid of that blood that oppresteth them. They tumble into their dens, that their footsteps may not be tracked, where they ly quiet, and at ease forty dayes, and for fourteen dayes stir not, sustaining themselves only by licking their right foot, so that through fasting, their guts are kinged together and even shriveled up. The males ly hid forty dayes, the females four month. They furnish their dens with heaps of bows, and shrubs, or soft leaves, making them weather proof, and then lay themselves along, and sleep the first seven dayes so soundly, that wounds cannot wake them, which strangely fattens them, after they live by sucking their forefeet; strange to say. Theophrastus thinks, that for that time Beares flesh boyled and kept might increase, there is no hen in them that they have eaten, but only a little moisture found in the paunch, and a few drops of blood about the heart, and none in the rest of the body. In the Spring they come forward, and the males grow so fat, that they hardly stine; the Shee-bears is leaner, because they breed. They hold their lodgings in their dens severally, divided by trenches. Coming abroad, they eat greedily the herb Arum, to loosen their guts, that are so shriveled up; and when they breed teeth, they clamp on slips thereof. If they assault Bulls, they make at the horns to tire them out, and at the musle, because they know it to be tender. Their very breath is so contagious, that no wilde beast will touch what they have blown on. In Myfia, they say, are a kind of white bears, that being hunted, send forth such a breath, that the steame that rots the flesh of the doggs. Although their flesh be cold, rank, hard of digestion, and ill for the spleen, and liver; yet those about the Alps, and the Helvetians count it a delicate. And Bruerius saith, that hee at supper ate of it, well seasoned, at Symphorianus Campejus his table; but it was of a young one, killed in winter, which indeed they use to eat. For though they are fatter in July, yet for their ramment, they are banisht the table usually; only the forefeet are held the best food, and affected by some great men. Some say, that salted, and lung in the chimney to be smoked, they are a delicate, and that they wonder not, that in winter they suck their owne feet. Savanorola saith, the brain is payson. Divers parts of the Beare, are of great use in Physick.

CHAPTER VI.

Of the VVolf.

ARTICLE I.

Of the VVolf in generall.

THe Wolf the Latines call *Lupus*, or *Aldor.*
Leopus, or Lion-footed. The Greeks *l. c. 6.*
Lukos, from his ravenoufneffe, or *Name.*
Apo Tees Lukes, from the morning, *l. c. 6.*
either from his colour, or becaufe at day-break *l. c. 6.*
he comes forth to his prey. Or becaufe their *l. c. 6.*
eyes are bright in the dark: they are like Ma-
stives, and of divers colours.

Their eyes glister, and dart forth beams, and *Defcrip-
ruffet: their teeth like an faw, fharp, and tion.*
un-even, and round: He hath a wide gape: His
neck fo ftrait, that he cannot turn it about, but
muft turn his whole body to look behind him,
as if he had no joynts; though *Philes*, and other
Anatomifts fay he hath turning joynts. In his
temples he hath great finewy-mufcles; His
brain are faid to wax and wain with the Moon;
his heart dried, hath a good fent, his liver is
like a Horfe-hoof; his genital bony; his fore-
feet have five toes, his hinder four; his bones
thick. In his reins, when old, breed worms,
or ferpents, which *Clamorgan* faith he hath ob-
ferved in three or four carcasses. In his bladder
is a ftone called *Syrtes*. In Sardinia, Crete,
and Olympus in Macedonia are faid to be none.

England now breeds none, under *Edgar* they
were wholly rooted out, both in Wales and
elfewhere. They abound in the North-coun-
treys, efppecially in Mufcovy, where how they
ly in wait for catel, and men. *Olearius* in his
Eastern Itinerary, p. 119. declares. *Cadamlufus*, *Place.*
c. 29. tells, how they fwarm in the Kingdom
of Senega: In Angulia a Province of Scot-
land, and in the valley of Glamore they are, and
live by preying on wild beafts. They devour
flefth; but love mutton beft, and takes them
out of the folds; they ly in wait alfo for Horfes,
Oxen, Geefe. Having once taftef a Mans-
carcasse; Mans flefth favours beft with them.
If they fmell Women with child, they watch
for them; Nor spare they their own kinde, if
they be hungry. They go out by troops, and
if any one of them chance to faint and fall, the
reft rare him. They feed their fucklings with
flefth they have newly fwallowed, vomiting it
up again; but grown up they feed them with
Lambes and Geefe. They defire alfo the
Scythian herb *Bofametz*. In Congo they fwal-
low Palmoyl. They eat alfo potters-earr.
Whence it may be the ftone, is the ftone called
Lithargilus, full of turnings and folds, weigh-
ing eleven ounces, found in the ftomack,
fpoken of by *Schenkius*. *Albertus* thinks he
doth it not for hunger, but by naturall inflinct,
to make himfelf heavier, the better to oppref-
his prey. Being full he can faft long, then is *Monft.*
his

his belly widened, and histongue fwells, his
mouth is ftopped, and he becomes tame; when
his tongue is leffened, he turns Wolf again.
Whether they bury, and dig up their food,
and equally divide it, and by howling call
others to the ors, as *Albertus* relates, I leave to
hunts-men to determine.

They couple as Dogs doe, and quarrelling,
twelve dayes in a year; beginning, as fome
reckon from Chriftmaffe; and at that time are
fiercer againft others, though not among
themselves. They carry their burdens two
months, and bring as many as dogges puppy,
and thofe blind; the Helvetians fpeak of nine
whelpes at once; and one of the Rhetian
Alps in May found seven or nine in a covert
that came of on litter, and the fame man re-
ported, that it is commonly faid that at firft
draught they bring but one Whelp, and that
blind; at the fecond, two, and on forward, ev-
ery time more, till they come to ten, and then
bear no more. That in twelve dayes they lit-
ter after gendering, as *Laiuna* under that fhape
in *Delos*, is a fable. *Antipater* affirms, that they
caft their belly when the Acorn-bearing-trees
caft their flowers, which they tafte, and their
womb opens; when there are none, their
whelps dy within them, and they cannot bring
forth; and that Wolves doe no harme where is
no plenty of Acorns. They drink very little.

[Poet *Pluy*, and others report many things
more ftrange then true, more fitted for a Poet,
than a Hiftory.] As that he is firft ftuck mute,
whom the Wolfe fees firft, &c. That the
Wolves eye plucked out, affrights four-footed
tame beafts; that the that haps to water on
Wolves warm piffle, fhall not conceive with
child. That the tail langed by a manger, keeps
beafts from eating; Or the charming of Horfes
that treads in a Wolfes foot-fteps. That mu-
ton that he hath feed on tafes fweet, but the
wool breeds lice, and itch. A skin put on a
Wolfes skin, fheds the hair. The dung hid in
ftalls, holds catel in quiet. All harmony is mar-
red, if you mingle in mufick ftirngs of Sheeps
and of Wolves gus: Fopperies! If he touch
Sea-onion, he is ftraight fhrivelled together. He
fears ftones, becaufe worms breed in that part
that is ftuck with a ftone. Sparks ftuck out
of a flint frights him fo, that he dare not ap-
proach, be he never fo hungry. A Drum
made of his hide, drives other beafts away. A
Pipe, or any mufick, or a Drum frights them
away, when flinging of ftones cannot. They
are faid to love Parrats; they run mad some-
times; they get the Gout, and are troubled
with the Squency; Wolf-bane, or *Lycodotum*
kills them. When wounded, they ftetch the
blood by wallowing in the myre. They live
long; and when old, they are troubled with the
tooth-ach, and caft all their teeth.

Having weak-e-inwards they eat herbs, efp-
pecially *Dracontium* to fharpnen their teeth. The
loweft are thought boldeft. False into a pit,
and feeing themfelves inclofed, they are ftup-
pied, and harmefeffe. They obferve who

ftrikes them, and watch to be revenged. They
love their young, the females ftey by them,
and the males cater for them. Flying they take
their young with them. They are footed taken
in cloudy weather, then they hide themfelves
moft. Walking among leaves they lick their
feet, that they may not be heard. Being to
paffe a river, that the ftream carry them not
away, they hold one the other by the tayl with
their teeth; and fo hanging on another; they
will drag an Ox out of a marfh. While they
eat they are angry with lookers on, meeting
with a man, and a beaft together, they ever
fpare the man, faith *Albertus*: One related to
Gefner, that he faw a Wolfe in a wood bite off a
piece of wood of thirty, or forty pound
weight, and prafticed to go to and fro upon it,
as it lay, and then hide it, when he was perfe&t;
and a wide Sow coming thither with her
Hogs of feveral ages, becaufe oats were fowed
there, he brake in, and tooke a Hog away about
the weight of that block, and leaping took the
wood back, and devoured the Hog. Some-
times they grow familiar with dogs, and fo
enter the folds without refiftance, and carry
all the fheep to death, afore they fall to eat any
one. They dare not make at the face of a Bull,
becaufe they feare his hornes, but they firft
feeme to threaten him afore, and then fuddenly
take advantage of him behind. Like Horfes,
and Dogs, they wax gray through age. When
hungry, they can fent their prey by night half
a mile againft the wind. One will houle, and
call many more, and fet together on a troop of
Horfes, which happens oft in Bononia. At mid-
night they will go by troupes to a village, and
ftay at the entrance; one fhall enter, and awake
the dogs, and fo entice them forth, and de-
voure them. They will hold willow boughs
forth to goats to enveagle them within their
reach.

Their voyce is howling. Fashionable people
admit not the flefth to their table, it being a dry,
groffe, rank food, yet in Savoy fome eat it. They
are very ufefull in Phyfick. Boyled alive with
oyl, and wax, it is commended againft the gout.
The Hide binds, and helps the colick. The
flefth eafes child-bearing eaten by the teeming
woman, or any that are by. The fat is mixt
with falves againft the gout, the blood with oyl
of nuts helps the deafneffe; the Head layed un-
der your pillow provokes fleep; the right Eye
falted, and tied on, helps agues; the tooth takes
away the fwelling of the gums, making way
for the teeth to come with eafe; he who drinks
through a Wolfs throat, efcaapes the danger of a
Squilly. *Agricola* confeffes he learnt that ex-
periment of *Adolphus Occo*. The heart, a
dram of it mixt with an ounce of the guaf of
an oke, and another of that of the Pear-tree,
and two drams of Harts-horne helps the fal-
ling fickneffe. The Liver is good againft a
furred mouth; the fame in warm wine helps
the cough, and Tiffick; the gall bound with
Elatarium on the navell makes laxative. The
dung gathered up among fhrebs and briars,
hath

The eye dried, and hung about childrens neck,
is faid to free them from feare in the night, and
bound on the left fhoulder, allays a quartan
ague. The blood diffolves waxen kernells, and
impoftumes, and helps againft hairs bred in the
eyes, and kills fleas. The fat takes out fpo-
ts, and with Lilly-roots, is good againft a burne;
fome fudar it on againft S. Antonies fire;
mixt with red oker, it heals ulcers on the fkins,
and thighs; with Allom, it closes chaps in the
feet, it helps againft baldnes; they ufe it alfo in
the weapon-falve. Men fpread the skin under
thofe that are bitten by a mad dog. The
powder of the lungs, keeps feet, pinched by
fhoes from inflammation. The gall helps
againft the aches in the joynts, and is com-
mended againft the falling-ficknes; and with
hony is good for a cough, but is wrongly ufed
to helpe conception. The hairs with Venus-
hair, and roots of reeds burned, make hair
come.

To omit *Pliny* his fable about the eafening
of child-bearing, by laying the ftone whereon
a Bear is killed, in the chamber. The Samodi-
des, and Laplanders, wear Bears-fkins; fome
ufe them for coverleds; of old they covered
their bucklers with them, to appeare more
dreadfull. Some daubed the fat on their iron-
worke of plows, and harrows, to fence them
from hail, and froft. Some finer it on their
Vine-barkes, to defend them againft vermine,
worms, and froft. Some fhewed them in their
fights, and ufed them in their punifhments,
Domitius Anobarbus October 14. The Pi-
fods, and M. Mella, being Counfells, pre-
fented in the Cirke an hundred Numidian
Bears, and as many Ethiopian hunts-men.
There are fome greater, fome fmaller, black,
and white ones. They troubled the Hollanders
in their paffage, through the frozen Sea to Ca-
tay. Some are of a ftupendious bignes; fkins
have been feen thirteen foot long. On a pro-
montory, in the utmoft confines of Arabia, are
Bears gold-yellow; Some are dusky-coloured,
The Helvetians call the fmall Rock-bears, the
great Capitals. In the new world are fome
flugs, that live on ants, dogs can mafter them,
and a ftaf drive them away, having no tayls,
called *Mymecaphagi*.

The greateft are found in the Province of
Vera-Pax, or True-peace, having of black
hair, or wooll upon them; their tayls a palm
long, flat-nofed they are like the blacks, their
muzzles round, hairleffe, and wrinkled. In
Virginia they eat them. They are there
timorous, avoid mentake trees, and are with
darts driven thence. The Province Beach, is
faid to have harmefeffe Bears. *Suidrigellius*
Prince of Lituania, had a Beare, which com-
ming a mornings out of the wood, neare the
Court, would with his forefeet paw on the
doores; and having meat given him, returned
to the wood. Among the Turks, a fect of
Hermits, ufed to lead a Hart, or a Beare with
a bell about the neck, through the cities and
villages.

Gepitring.
Ant.

Gefner.

Fatio.

Clamorg.

Galen.

Antipathy.
Soc.

Poc.

Poc.

Poc.

Poc.

Poc.

Poc.

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Poc.

hath helped the colick, drunk, or hanged on; nay the bones found in the excrements, if they have not touched the ground, tied to the arme. The bones dried to powder remove the pain between the ribs; the head hanged up in a Dove-cot drives away weefels, and cats. I omit the use, or abuse rather about venery, and witchcraft, and the heathens sacrifices with them, when they invoked Divells. The newly married among the Romans smeared their posts with Wolf-fat; the tayl hanged over mangers, keeps away the Wolf. The Differences follow.

ARTICLE II.

Of the wolf in speciall, and of the Gulo.

Ambros.
H. Dig. ff.
l. c. 7.
Olaus
de gent.

AMong Wolves, some are wild, as on the Doffinian mountains, that part Norway from Sweden, & in Sardinia. They are more flaggy then others, yellow, and their tayl standing up. In Media they used them in their sports, armed men fighting with them. Some are called from their elegant colour, *Golden-ones*, lesse then ordinary Wolves, but as greedy. They go in troops, hurting neither men, nor herds. They seeme to barke like dogs. They are seen in Turkey and Cilicia. They visite the Turks cottages by night, and eat what is eatable, that comes in their way; if they meet with nothing else, they carry away caps, cloathes, shoes, and what ever is of leather. Men make garments of their skins. There are also Scythian wolves in the utmost borders of Scandinavia, behind Norway, and Gothland. It is a beast as big as a wolf, and very angry; the Germans call them *Grimmeklaw*, because the edges of the nayl make them teachy. There is also the Sea-wolfe, a mungrell, as big as a Bear, so hardkind, as a sword can scarce pearce it. He hath a wondrous great head; his eyes are shadowed with very many hairs, nosed, and toothed like a dog, sharp-flagged on his skin; black spotted, his tayl long, thick, and flaggy. Small stones are found in his stomach, very fat he is, found on the British coasts. In the Isle of Angra a thousand of them have been seen in a troop. They are also seen in an Isle behind the Port of S. Cruz, and in the Sea-tract of Peru. The Birds called Butiri kill them sometimes; they have wings fiftier foot broad. If they spy a wolfe, one takes him by the legs, another with the beake blinds him. The old ones roar like Lions, the young have a kids voyce; the liver is eatable. Those of Angra eating their flesh fresh and salted, live long. The skins are worn.

Glaron.
Boopha-
gon.
Mich.
in desc.
Sarmat.

The Gulo, or Gorbelly hath the name from greedinesse. Scaliger calls him a fourfooted vultur; Crollius an Ox-eater; the Germans *Vielfraße*. Found they are in Lituania, Moscovy, and other Northern Regions. They feed on carcases, and so cram themselves, that they strut like a drum. They squeeze out their ex-

crements between two trees by force, and then returne to their carcasfe, and cram themselves again. Akin to this is the wilde beast, that the Arabs call Dabuh, the Africans Sese, shaped like a wolf, and as big, he digs up carcases also; Gesner takes him for that ancients, called Hyæna; his blood hunts-men use for drinke. Seasoned with the finest hony they drinke it at wedding-feasts. They annoyt ulcers with the fat. They make strings of the guts. The hoofs newly plucked off from it, while living, shewed to dogs, and cats, drive them away; and hanged on remove the tinkling of the eares. The skins make handfome cloathes, and the most honoured guests are entertained with such carpets. Therefore they suffer them not to be transported to other lands. It is said, that they that slept under coverlds made of the Guloes skin dream of gourmandizing.

TITLE II.

Of the half wilde Toed-beasts.

CHAPTER I.

Of the Fox.

ARTICLE I.

Of the Fox in generall.

WEE call the Semiferæ, or half wilde, those beasts that though wilde, yet being of small bulk, are easily mastered, and tamed by man. I begin with the Fox, called in Latine *Vulpes*, or *vulpes*, either from *vulpes*, because he is so full of doubles in his goings; or from *vulpes*, he being so swift of foot, or from *vulpes*, because he is strong-footed. The Greeks give him many names, as *Aloopeex*, from *Aloo*, and *Opl*, deluding the eyes, and sundry others taken from its craft, and tayl. He is so well knowne, that I need not stand long on describing him. The *genital* is bony as the Wolves, and Wezels. The tayl bushy, ears short, he loves to eat Hens, Geese, and other foule, and hayrs, wild Mice, Cats, litle Dogs, that he can gripe, and locusts. At Marcellus a Fox hunting in a fisher-boat for Buopes, among great Lobsters, was taken in a Lobsters claw; they refrain not ripe grapes, nor pears, saith the proverb. Solinus saith, there are none in Creet, or Candy. But in Russia, and the Helvetian Alps they abound. Whence Merchants buy the skins, and sell them in all parts. They couple in divers postures. They mix with other creatures, as with dogs, whence come the Alopecides, or dog-foxes; they bear blinde whelps, foure at most at once, and then retire, so that few are taken great with young. They lick, and carefully foster their brood. They love serpents, and live in the same cave with them. They hate rue, which if you bind under Hens wings,

wings, the Fox will not touch them. They hate the kite and eagle, because sometimes they snatch up their young, and Hawks, because they pluck of their hair. Avicen saw a fight in a cage, between crows, and a Fox, he wounded their heads; but they bound up his lips, so that he could not queach. They have many combats with badgers, and with the fent of their dung, drive them away. Hares haunt those liles most, where are fewest Foxes. They barke like dogs, when vexed, or in pain, when they desire any thing of tame, they use a fawning murmur. They are very crafty. In Thrace, being to passe over frozen rivers, or lakes, by laying their eare to the ice, they guesse whether it be thick enough to beare, or no. In his hole he makes many outlets to scape traps, and gins. Because the Wolf by the touch of the Scillaiss vexed, they lay it in their holes; when troubled with fleas, they take a lock of hay, or hair in their mouth; and dip it in the water, and drown them. When Hedge-hogs roul themselves up, they pisse in their mouths, and choke them. He will play with a Hare, and then snup him. He will roule himself in red clay, to seeme bloody, and then ly down, and stretch himself out, as if he were dead, and loll out his tongue, and so he catches birds. So in Pontus, they delude Buzzards, lying with the face another way, and sprawling, with the tayl stretch forth, as a birds neck. Taken in a snare, to get loose, he will bite off his leg, or fain himself dead, holding in his breath. He worries Hens at roost to wile his tayl, that he casts them down, and eats them; and hath tricks to catch fish, and walps with his tayl. On a tall tree he will shew himself sportive, and stand on his guard as in a castle; he fears not fire, unless very neare him; he will rather be thruit through, then come down to become a pray to the dog, and if he must come, hee falls like lightning on the best nosed dogs, and dies not unrevenge. Neate tables admit not Fox-flesh, yet the Sarmatians, Vandalls, and Rustique French, eat it boyled, or roasted, as the Boetians of old. Those Islanders of S. Cruz eat of it, raw, or a litle hardened in the smoake. Some decry it for a savage food; but Galen saith, it is like Hares-Besh. The brains given to children, preserve them from the falling-sickness. The Tongue worn in an bracelet, is good against thick sightednesse, and dried, and hung about the neck, against white in the eyes; the Lungs is commended against Pittick, wheefings, short breath, and liver-grown; the gall with hony, helps dim-cloudy-sight; and some put it in suppositories, to have male children; the reins with fat, helps knee-gout; and some rub the throat with them, to take down the swelling of the jaws. The genital, testicles, and the other secrets, some use to help conception, and months, and head-ach; the blood help the Rone, the fat melted, and dropped into the eares, removes old griefs thence, and helps the sinews, and the stone, and is good against shedding of hair, and the frost

in hands, and feet, if you annoint them afore they be swoll: the dung with mustard, cures fore-heads; the skin is good for the hair, and shoos made thereof, eases the Gout, and Sciatia. The tayl also hath its medicinall use: Fox-oyle is very effectull for all diseases in the joints. Fox-skins make costly fures, especially if black. Foxes are of diverse colours, sizes, and natures. They are lesse in Egypt then in Diff-Greece. In Peru very litle, and of a noysome renes. Cent, and the stipe of the pisse is not to be washed out. In the Northerne woods are black, white, glittering Foxes, and some with Scilla, crosses; and those called flatides, and some black, with some white hair sticking in order: Of reddish, are two kinds, one with black, and white throats, as if besprinkled with ashes. The other white-throated, which is rarer. There is plenty of white ones in Swetland, and Norway, especially about Nova-Zembla, seen most, when the Sun dis-appears. Hollanders say, they taste like rabbits. Some are crossed from the mouth by the head, back and tayl with a straight black streak, and another thwart by the shoulder to the forefeet; which two streaks make the cross. By the Caspian Sea they are as familiar as litle dogs, and as harmles.

ARTICLE II.

Of the Indian Foxes.

THese are of sundry kinds, distinguished by name. The *Cuvul* hath a wolfs-head, great, pale, but lively eyes, short, sharp-eared, black, long, thick-muzz; d; fnewy, hooked-thighs, thick-claws, bushy-tail, dusky, long, and bright-hair, and bites shrewdly. For bulk, between a wolf and a Fox; frequent in new Spain, in places lesse cold; He lives by preying on weaker beasts, and on Sugar-canes, and Mazium. He sometimes fers on Deer, and Men; He is cunning in avoiding hunts-men; of the wolfs nature, revengefull, and mindfull of the losse of his prey, long after hunts him that took it; and with others falls on him, kills him, watches his house, kills all the tame cattel about it. But is so grateful to his benefactors, that he leaves part of his prey to them. His pizzle rubbed on the teeth, is said to give present ease to the tooth-ach. The Cur-lax-cattail, is of the like nature and shape, but of another hair; thick, and slag-necked, the hair so long on the breast and face, that it is hideous to behold. The Azacoiote fits on Ants holes, and by night howles in several voices. The Ipecaxtila is of a hair white, black, and gold-yellow, small-headed, and joynted, slender-bodied, and short, but long-muzzled, and thin; He is found everywhere most what in hot places. The Oztoa is a kind of shape and bulk like a Fox, about thirty inches long, white and black-haired, and a litle yellow, haunting ditches, and feeding

in fenny-places; They nurse up their young in hidden holes, and bite shrewdly, and fain themselves dead, if they have no other way to avoid the hunter; He breaks most stinking wind, yet they eat him. The Izuquepat is coloured like roasted Maiz, he is eighteen inches long, low, small-muzzled, small-eared, hairy, and black-bodied, especially near the tail, short-thighed, black and crooked-claw; he lives in rocky dens, and there their young are nursed up. They feed on Horse-flies, and worms, and they kill fatted-fowles, and eat their heads only; Reduced to extremum hazard, he darts his pipe and dung eight paces off, and spoiles the cloathes of the hunts-men with indelible spots, and a stink never to be gotten out. They that have the Spanish-scab, find good by eating the flesh, and dung. There are two other small Foxes, the Izuquepat, and the Conepatl, one with two bright gards, the other with one drawn along the tail. The Brachirax are like Foxes, but rounder, and of sweeter flesh; The Annax are somewhat lesse then our Cats, and of a pestilential smell, haunting towns by night; their sent betrays them an hundred paces off; nor doors or windows can keep them out.

ARTICLE III.

Of the Beasts akin to Foxes.

POINT I.

Of the Cary-gueja, and Tajibi.

IN Brasil are five sorts of Beasts akin to Foxes; the Cary-gueja first, or the Jupatuma, or Sarigoy, or Taquatzin, or about the bignesse of a Cat, having a Foxes head, a pointed mouth, shorter below then above, a long tongue, that he withdraws threatening to bite; teeth as a Cat, or a Fox, small ones afore, then four long Dog-teeth, then six other, and then the grinders, which are sixteen, twelve middle-teeth, four Dog-teeth, and lesser, eight in the lower, ten in the upper-jaw, and two greater middle ones, like the Hare. He is wide-nostrild; hath fair, round, black-eyes; wide, long, Fox-ears, starting up, proportionable to his bulke; thin-skinned, smooth, transparent, a little dusky; bearded like a Cat; the hairs longer above, some on the eyes and cheeks; the head a little more then three fingers long; each ear two fingers long, and a finger and half broad; the neck but a fingers length; the rest of the body seven fingers to the dock; the tail crooked, a foot long, whereby he hangs on trees like an Ape; broad-breasted, the two fore-thighs shorter then the hinder; the fore-feet five toed, as a hand, nailes white, as a birds claws with tufts; the hinder-legges longest, as a Baboons; the hair in some parts longer, in some shorter, those of the head, and part of the neck, and tail yellow; along the head runs a large black-streak; the back, sides

and tail most what black, but other coloured hairs mixt; the tail part hairy, part skinny, half black, half white, some hair dusky. Round bodied, insensibly slenderer in some parts. Male and Female alike; under the belly is a double skin, cloven like a purse, big enough to hold an Orange, hairy within, where are eight nipples, the purse closed, scarce discernable; herein are the welps conceived; fix at a time are brought alive forth, and perfectly shaped, but hairlesse, there they move too and fro, each two fingers long, and stay there till they can feed themselves, and sometimes go forth, and come in again. The testicles ly under the dock: It is easie to be flead, as the Cony, or Hare, if you begin at the belly. It thinks as a Fox, or Martin. He bites hard. Feeds gladly on Hens; climbs trees to goe a birding; *Mark-grave* fed on in his chamber a month with Sugar-canes; at last he tangled himself in his string, and died.

He is found in Dariene in Brasil, and in Florida, and new Spain. The Brasilians call him Cerigona: His tail is Medicinable steep in water, and take a dram of it, cleanses the Ureters, helps the Stone, and Colick, breeds milk, easens Child-bearing. Champed in the mouth, and laid on, it draws out a thorn. The *Tajibi*, in Portugues, *Rachorro do Mato*, is round and long, white glittering-haired, the tips black; headed like a Fox, sharp-mouthed, Cat-bearded; the eyes clear, black, bolting out, goggle; the ears round, soft, thin, white, tender as soft paper; the tail five fingers long, hair white, tipped with black; the end of the tail is a thin hide, bright, scaly, like a Snakes lough. The flesh is stinking, yet eaten. The hair sticks in a thin skin, and may be plucked out without defacing the hide.

POINT II.

Of the Tamandua-guacu, the Tamanduai, and the Coati.

THe former is as big as a Butchers Dog, (*Abbe villanous* saith, as a Horse,) round headed, long snouted, sharp mouth'd, toothlesse, round tongued, seven and twenty fingers long, two feet, and half oit like an Owl, lying double in the mouth; eyes little and black; ears roundish; the tail like a fly-flap of Horse-bristles, almost a foot broad, whereby he can cover himself all over; the thighs round; on the fore-feet four crooked-claws, the two greatest in the midst, two foot and a half long; the hollow of the foot round; the hair of the head and neck short, and dry, turning forward; he is white afore; he is slow of foot, and eats Pismires.

The *Tamanduai* is of the bignesse of an American little Fox, round, copped-headed, bowing somewhat downward; the mouth black, very narrow, toothlesse; eyes small, and black; ears pricking up, about two fingers long; the hair hard, bright-yellow; the tongue long, round,

round, like an awl, lying as a pipe between the cheeks; on the forefeet are four turning claws; fierce he is, but cannot bite; touch him with a staff, and he stands as a Bear on his hind-legs; he sleeps all day, hiding his head with his neck and forefeet; romes about by night. Drinking, part gushes out of his nostrils *Mark-grave* saith, that after he had killed and flead one, a great part stirred after, though he had been kept fasting 8 dayes afore. In the left rein, (saith he) I found above a three corner d passage, fastened to the side by a double thin skin; in the bowels, many long round wormes; the lappings that folded in the hair, fair ones; the gall-bag great; the hide thick; the flesh smells like a Fox; none eat it.

The *Coati* is a Brasile Fox, as big as a Cat, with short thighs, and hands like a Baboon; copped-headed, Fox-eared; the mouth shorter below then above; long and sharp muzzled; nostrils wide, and cloven; eyes black; the tail longer then the body, which he sets up, and crooked; with ringlets on it, varied with shadow and oker. Eating, he holds his meat in his forefeet. He can climb the tops of trees. The *Coati* saith, he kept one tame, that would take meat out of his mouth; but when he began once to gnaw his tail, he could not be kept from it, till he had eaten it all up, and so died.

CHAPTER II.

Of the Ape.

THe Ape, in Latine *Simia*, or *Simius*, from the flat nose, or from imitating, or his resembling of us. Festus calls them *Clunus*: The Greeks *Pithekos*, from being easily perswaded to imitate man; *Emunoo*, from the gestures, *Armoz*, in the old tongue of the Hetruscis, *Bates*, from climbing-trees, *Kalliar*, by the Laconians. Hairy it is above, and below, back and belly; the hair is thick; nosed, eared, toothed like a man, two paps on the breast, armes like a man but hairy, which he can use, and turne as wee, fingered, toed, nayl like man, but those ruder, he steps like us, but treads more backward, arms short, and thighs answerable, he hath something hard like a navell, slenderer in the lower parts, they want a tayl, as being two legged creatures, the heart is Pyramide-wife, some found with two tops, veins, arteries like ours, the vein that goes into the right-lapper of the heart, and then into the right breast, is in them above the heart; those that are joynted to the reins, are widest, and passe to the stones: the substance of the eare is unmoveable. In many parts he is like a man, and in many unlike, as in the breast, and arme-muscles, and those that move the elbow, and thigh, those within the hands, and feet, in the mid-rif, lungs, as also in the bones; for in the loins are six turning-joynts, the shoulder-joynt is far from the breast, the thighs tend not streight toward the back-bone, thence it is, that going on the hind-feet, he

waggles, his feet are hollow, the toes much cloven. Bred they are in the eastern, and other warm parts, as in Lybia, Mauritania, in that part of Mount Caucasus, that looks toward the Red-Sea, in the Kingdom of Basman, in the tract between Egypt, Ethiopia, and Lybia. In the Indian-hills were so many, that they feared Alexanders army often. In Basman they kill them, pluck off the hair, all but from the chin, dry them, and embalm them, and sell them to merchants for mermen. They like hilly better then low-land; therefore they frequent the hills of Enifa. They love herbs, and barley, they go by troops to the ripe eares. They eat lice also, from men, and worms, and spiders, apples, nuts; but if the paring, or shell be bitter, they cast all away; they love flesh also, after eating, whereof they shed their hair. They drink wine too. They gender in Spring, when day and night is of a length, and beare a coupled about the summers solstice. The hee is reported to huge one for love, and to leave another with the shee, and never to looke after it. Being led through towns, they run a madding after women. They hold friendship with daws, and conies; but disagree with cocks, tortoyles, snails, &c. A noble man in England kept one, that keeps his Rabbits from Weefels. When a Parricide was sewd in a sack, they used to put in with him a Cock, an Ape, and Viper, that the Ape might fall on the Cock, and the Viper avoiding the Cock, might seaze the man. At Rome one of them, spying an Ape on a boys head, was so scared, that he piss, and shit. He dares not touch a Snayl. They are troubled with the hernia, or bursting, having a heavy kall, and with the falling-skinnesse, and inflammation of the liver, spleen, bladder, &c. All digestion, &c. Galen automised a leane one, and found in the skin about the heart a praternatural swelling with moysture in it, such as Hydatides wris, did use to send forth. I say nothing of their biting, it is said to be venomous. Avicen, to prevent rancling, prescribes a playster of ashes with honny, and bitter almonds. They hide their meat in their cheeks, whence by degrees they fetch it to chew. They are extreme lustfull, and will gender with Lions. They remember a wrong long; some say they soon forget, when tamed they shew their young to every one. They severally affected at diverse seasons of the year, jolly, and gamefome at new Moon, very lumpish and dogged afore. So soon as they find approaching death, or any infections diseafed, you may hear from them an unusual snuffing in the noce. Whence Crollius thinks Physicians learn the pulses of arteries; they go away, or sideling. Some can guide a cart, and play at cheffe. One seeing a nurse wash, and winded a child, when there was absent, undrest it, wash it in scalding water, and killed it.

They are taken by imitating what they see hunters do. They never are so tame, but that they quickly go wild again. They love to play with children, and dogs, but, if you look not to them,

Of the Baboon, or Bavian.

them, they shall choke them, or break their necks. They will make themselves drunk. The Zababes, and Zygyantes of Africa eat them. Rhafis judgeth it but cold, and harsh flesh. The heart roasted, and boyled with hony-comb is said to sharpen memory. They differ in shape, colour, neck, hair, and bulk. Some have tails, some none, some are gray-headed. Some among the Orfei in India are white: Polus faith, some go upright. To these may be referred the Orang-outang brought out of Angola, presented to *Frederick Henry*, Prince of Orange. Tulp calls it a *Wild-man*, long as a child of three years old, thick as one of six, square bodied, nor fat, nor slender, but very active and nimble; having such well trust limbs, and great muscles, that he durst attempt any thing, and do what not all smooth-fore, and shaggy black bearded, faced as a man, flat, and crooked-nosed, eared like a man, two fair swelling paps were on the breast, like a womans, (for it was a female) the navell deep, and limed fo like a man, that an egge is scarcely like an egge, resembling man in elbows, fingers, thumbs, thighs, calves, heels. Shee walked off upright, and with ease could hoyt up and beare a burden. Being to drinke, shee with one hand took the can by the eare, and put the other under; and wiped her lips handomly after. Going to ly down, she would lay her head orderly on the pillow, and cover herself close with the coverdills. The Sambacensian King reported, that they are so valiant, that they adventure on armed men. So given to women, that they oft ravish them. In Guinnee some of them will bray any thing in a mortar, and carry pitchers of water on their heads, and empty them at their doors, to prevent spilling. These are called *Baris*. Strong they are, and brawny thick set. In India there is also cried up to the skies; Zeilan keeps his reliques, namely a tooth, which Constantine the Portugal Viceroy took amongst the prey from a Barbarian Prince; so honoured and adored was that Ape by the cheefe Kings there, that yearly Embassadors were sent laden with rich presents, only to be permitted to take his print in piece of clay perfumed, and inclosed in shold, to place themselves, forsooth, with his shadow only. After the King of Pegu being conscious to himself of an oath he had passed to the Portugees, sent Embassadors to the Viceroy with ships laden with wares, and 300000 pieces of gold to redreeme the tooth. Many Portugals were of opinion to send it, but to demand a greater summe, even a million, but the Viceroy (though he knew the King would have given it, and himself wanting money, yet) preferred piety to gain, and that it might appeare to all, he caused the tooth to be brought amidst an assembly openly, and to be taken out of the rich case, beset with jewels, and gold, and with his own hand cast it into a brazen mortar, and commanded it to be pounded to powder, which was cast into a fire, and so vanished into smoke.

HE takes the name of Cercopithecus from his tayl, for *Kerker* signifies tayl, and *Pithekos* Monkey, or Ape. The Greeks call him also *Kepos*, which some fetch from *Kybos*, Nimble. Albert calls him Mamonet; the Italians Spingis; the Celts *Abramar*. We shall describe him anone under the kindes of Aurelius delineates his Genittals. They are found in Æthiopia with black heads, and Affes hair, and in the woods of Iava, and the kingdome of Congo; and in India on the Emoden hills, and on that lofty mountain near Aden a city of Arabia, and all about the Indian Continent. In Malabar they are very cheape, because they hurt the Indians Nut, that is the gain of the natives. They eat anything, and gnaw their own tayl when they are luttfull. They abhor Crocodiles fo, that they are almost strooke dead with the fight. In East-Indies, under the Portugals, they eat them, and use them in Physick. What sport they make is well knownen. Their bones brayed, and drunk by provoking sweat, ease the French pox. They dote on their young, and hugge them hard; they feed on fruit, and birds eggs. Many of them eats and drinke their own excrements. Sometimes, if they see a man alone, they come down, and play with him. They are full of crafty tricks. It is strange to see how they cast stumps of trees at passengers; they passe rivers holding by each others tayls, and get over by bows, and a chain by wondrous arts. Above all, if one of them be wounded by an arrow, or dart, no men can help one another better then they, knowing how to stanch the blood with leaves, and mossie, and save, if possible, the life. They bring but one at a birth, and embrace their young, and carry them to the craggy tops of hills, where the huntsmen raise a heape, and compass it with maiz, and lay there the stone Cacakoatl, the nature whereof is, when heated through with fire to crack, and fly asunder, the Baboone run to it, and to eat of that stone, but terrified with the crack, forget their young, and run away, leaving them a prey to hunters. They carry also their young on their back, till they can safely dispose of them. The young hang with the hands about the dames neck, and with the legs cling about her back. Some are nimble as a bird in climbing trees, and skipping from tree to tree. One hath been seen to leap a river. The captains of them perceiving a troupe of men passe by, (for men dare not passe by them alone, nor a few) they call their fellows of divers shapes together, out-face the men, and with hideous noyse skip from tree to tree, and follow the men, mocking them with a thousand Apes tricks, moppings, mowings, waggings of the tayl, and make as if they would assault them; but coming down, and see the arrows, and guns, (which they have had occasion

occasion afore to be acquainted with,) aimed at them, they fly swifter then the wind to the tree-tops, where they complain, chatter, and threaten. It is said, they are fo dexterous, that they can decline, and avoid arrows-shot, and catch them flying, as if they were reached to them; but the bullets put the younger beside their skill. When they see any of their fellows fall, and taken up by the shooters, they thunder above, filling the skies with hideous noyses; as if you heard the roarings, and yellings of a thousand Lions, and Tigers. But one thing is worth hearing; each Ape, when they take a tree, carry up stones in one hand, and some in their mouths, and pelt the passengers, when they have done shooting. One levelling at a great, long-tayl Monkey with a gun, hee made as if hee would stand it; but when the man winking with one eye, was taking aime, he threw a stone in his face, and brake it, and dashed out some of his teeth. But since he perished by a new stratagen, and was shot, just as the stone fell, and was eaten for a dainty with mirth. Some would have eaten then toads, or worse, so hungry they were. Such tricks perswaded the old world, that these were a humane race, which occasioned in fables, mention of the Baboons birth-day. I thought once that they were happily a kind of Pigmees. It is strange how they can handle merchandize. They play with the savages for money, and winning, invite to the Tavern, and pay the shot. Among the souldiers of Havana, a Baboon marked that one won apace, and fate close to him, to have his share, according to the manners; if he denied, he would fight for it; if he received it, hee ran strait to the Tavern, and tooke a pot, holding it to the vintner, to pour wine; the pot being brimfull, he drank it up, payed his winnings; if it came to more, he expected more wine to the value, which he did twice, or thrice.

Another being sent to the Taverne, and not using to pay till hee had his bottle full, would gather stones to defend it against the boyes; and though he loved wine well, he carried it safe and entire to his Master. He could not abide painted women, but tore their hair and cloathes. One great Baboon, with an extreme long tail hanging by it, on an Oke, turning and swing himself three or four times, caught hold, skipped from bough to bough, and from tree to tree, as if he had flown. An Archer shot one, who being wounded, in a fury set on him who hurt him; he drawing his sword, cut off the Baboons arme, and took him, but strongly resisting; but being brought to the Navy, he grew tamer, being chained: and the huntsmen bringing a Boar home, he and the Baboon were ever fighting; this with his tail tangled the Boar, flew at his throat, and throttled him. Another seeing some hunt after him to shoot him, got into a window, snatched up an Infant, ran to the house top, and held the child for a buckler between him and the Arch-

er, to make him hold from shooting. Baboons differ in bigueffe, colour, tail, and otherwise, some in Prassiana an Indian Region, are as big as the greatest Dogs, having tails five cubits long. Some are black, some ash-coloured, some gray, some party-coloured, some spotted, some yellowish, some dusky, &c. Some longer tailed then others. Some bearded; some go upright; some Lyon-like, some mostaccioid; some of a mixt kind. The bearded, Marck- the Brasilians call them Guariba, are manifold, grave. H. N. having a round goats-beard, they are as big as Brasil. I. 6. c. 5. our Foxes, high-browed, with black sparkling-eyes, ears short and roundish; tail long, bare at the end, which they are ever swinging about; the hair black, long, sleek, and shining. There are swarms of them in the Woods there, and make a hideous noise. They meet daily again, and again afore and after mid-day. One of the lesser is higher then the rest in the midst, and begins a singing note, giving a signe with the hand openly, the rest follow his note, holding on till the first makes a figure, then the rest are huilt in a twinkling, and the first concludes aloud. They carry their young on their back, frisking from bough to bough. It is a biting and untamed beast. Some of them are great, and black, having a long, black, shaggy beard. If they find a Moor woman alone, they force her. Clusius describes a kind, long tailed, with a tuft at the end, like a Lion. The Guinee *Exguina* in Congo hath dark hair, as it were burnt, sprinkled with white tops. The beard very white, the hair two fingers long, as it were kemed. Anger him, he gapes wide and chatters. Another sort is as great, or each cheek stone of hair white, and yellow, bearded like a Goat, reaching to either eare; black legged: Toylful, and clamorous as the other. Ambrosine represents three priests of them; one he conceives to be the Callitriche (or fair-haired) living only in Æthiopia. A second a kin to that, The third faced like an old man (a Marmoset) with a long black tayl. He walks upright, very nearly resembling a man. He loves boys, and women everywhere, and if he get loose, endeavors to ly with them. Indultrious they are, and wittier then some men. Of the Lion-kind are first the Cagui, as the Brasilians, or the Pongi, as the Congians call him; one is greater, like the Baboon, called Cay, round, and Lion-faced, black and bald-eared, Lion-mouthed, black-eyed, the tayl a foot, and four fingers long, and reddish. There is a lesser, a like faced, but with a lesse head, like a small apale, a little nose, sharp teeth, roundish eares, the tayl ten fingers long, with white, and dusdish ringlets, fed with bread, and mandos meat. The whole body six fingers long. Another fort is called the Sagovin; Lion-like afore, but so tender, that he brooks not the toasting of a ship at sea, and so proud withall, that never fo little troubled, he in fullness starves himself. That that Rod. Lincius brought over was lesse then a squirrel, so fo dainty that it must be kept in furre. The snout, and forepart of the head was Lion-like,

Ufc.
H-rolo.
Pors
Phyl.
I. 1. c. 17.
Anit.

Pun.

Tulp.
obser.
I. 3. c. 56.

P. Larcus.
Nierem.
H. E.

Names
Kerker
Pithekos

Kepos
Kebos

Albert
Abramar

Ambrosio
Lib. 2. c. 6.
Place.
Strabo
Geog.
Pun.

Names
Nierem.
H. E. 19

Job.
Ani. mo 5

Job.
Ani. mo 5

P. Mar-
tyr.

Ellian.
I. 7. c. 20.

Scalliger.

Marck-
grave.
H. N.
Brasil.
I. 6. c. 5.

Marck-
grav.

Gesner.

Marckg.

Nierem.

Nierem-
beg.

dark-coloured, mixt with red; the ears shaggy, and bright, and reddish; the throat, and breast shaggy, dusky, and white; the other hair of the body black, and white, and sparkling, and partly-coloured from back to belly; the tail long, and so coloured; the belly black-haired, the thighs white, and red; on each foot five toes, not very long; the nails white, scarce a handspan to be seen. The Moschatus the Brasilians call *Castaja*, long-haired, white, and yellow; roundish headed, low fore-headed, nose little and flat; tail-bending, shrill voyced, and pettish. I saw one at Generall Wardenburgs at Amsterdam. There is another of the kind darker-haired, like the Zobellines. Of a doubtfull kind are the *Macagua* in Congo; of a wolfs colour; the nose high and parted, the head like a bears, buttocks bald, the tail bowed; a foot and somewhat more long from head to tail; a foot and nine fingers thick. Hee cries Hah, hah; the Brasil *Cay* in Toupinambuti is common, little and black, living most in the woods, and sitting on certain trees, where on a thick mast grows, like our greatest beans, whereon they feed. There is also another Guinee Baboon, grilly, dusk-shadowed with yellow, almost like a hares back, small-headed, and long-tailed.

CHAPTER IV.

*Of the Cynocephalus, (or Dogs-head)
the Papio, and the wild Upalim.*

THE first hath the name from a Dogs-head. It is called also the Tartarian; because it comes thence. Also *Kynopropion*, or Dogs-face: And *Charopithekos*, or Hog-ape. Almost of the shape of a long tailed Monkey, but thicker set, stronger, fiercer, and ficed like a dog, or a Satyre, as Strabo makes him. Open arched he is. Found in Ethiopia, and in Arabia from Dira to the Southern corner; and especially in the utmost promontory; also above Dacinabades, and in the South of Lybia. He feeds as other Apes, eating stone-fruit, he cast away the shells, and parings. They eat also flesh boyled, and roasted, especially the delicatest. They can drink wine also. They have many voices, and those rude; sometimes shrieking, then howling Orus faith they barke; they are loon moved to fury, effeminate, lustfull, petulant, fiercer then Apes. By natural instinct, when dayes and nights are of a length, on set hours, night and day, they pisse, and make a noyse. The Hee in times twist moon and moon, not eats, nor looks any way, but moping looks downward. They are said to congratulate the moon rising, wherefore the Egyptians in their religious rites made much of them, to learn from them the heavenly conjunctions. Of a singular wit they are, comming nearest man, except the Elephant. In Egypt they write letters, and receive many of the spectators for their masters. Akin to these is that Alvarez in his Ethiopian journey

writes of, and another in Clufius. That's as big as a Bel-wether, and shaggy as a Lion, going by herds near Calote. This shaged, and ash-coloured, not so long tailed as a Baboon, long snouted and blunt at the end, bald buttocked, blood-coloured, as if flead. The Papio (in Dutch *Paphon*) is great rugged, ugly headed, short thighed, almost Fox-tailed, but short, and commonly lifted up, footed like a man, no way answering his height, doting on women. He feeds on apples, pears, and other fruit. The Shee brings two at a birth, a male, and a female. The wild Upalim is as big as an Ethiopian Baboon, the skin red as scarlet, spotted in some places, the head round as a ball, the feet round, and broad, the claws harmlesse. The Moors beat the flesh with planks to make it tender, and eat it. What it feeds on is unknown.

CHAPTER V.

Of the Ignareus, or Slug.

THEY are of two kinds; one the Portugees call *Perillo Ligo*, the little swift dog by contraries; and Friguiza. Of the bignes of one of our midling Foxes, short-necked, two fingers long at most, small, and somewhat round-headed; narrow mouthed, toothed as a Lamb, blunt, smooth, high, black-nosed. The eyes small, black, drowly, having no cares; the tail blunt, like a sugar-loaf, on each foot are three nails, white and yellow, crooked, bending, and hollowed. The hair about two fingers long, ash-coloured, badger-like, but softer, and whiter. The most sluggish, and slow-paced of beasts. He creeps up trees, and eats leaves, never drinks. Seldome fend forth any voyce; holds fast what he catcheth, fears the smallest rain. The heart taken out of the female, stirs half an houre after. The paunch red streaked like beans, into which the navel-veffels in many sprigs are fastened. They bear young-haired, toothed and clawed. The heart of the shee hath two plain ears, hollow. In the stomach the upper-mouth is two fingers crosse from the gullet, and where the opening ufes to be, is a gut a span long, but hath no passage. In the stomach is plainly seen green matter of leaves. Two paps are on the breast. Tough of hide. So lively, that, if all the guts be taken out, it stirs, and draws the feet together. *De Laet*, who faith, hee saw one alive, faith, the neck is longer, as we have made it. He clings so fast, that he looses hold, and life together. Hermianus faith, he in a whole day cannot move fifty paces forward. By night he is heard, and the latter syllables still lower than the former. He stays sometimes in a tree twenty dayes without food, and is thick-fighted. Another of the kind, called Hag, hath an Apes face, a rough-shagged skin, hairy-thighs, claws, on each foot three, and those sharp, and long, is easily tamed, when taken.

CHAPTER

CHAPTER VI.

Of the Badger.

THE Greeks have no proper name for it; the Latines call it *Taxus*, perhaps from *Dafus*, hairy, and shaggy; and *Meler*, or *Melis*, *Melo*, and *Melotus*; from the roundness of the members. It is greater then a cat, or fox, whose nature it comes nearest, the skin being rough-hairy; it hath more white, then black hairs, the head black in the midlt, white on the sides, brood-backed, sharp-toothed, it is a mistake, that the left legs are shorter. They are found over all the hills of Italy, and Helvetia, and elsewhere. They live on hornets, and worms, apples, and grapes, being fattest in Autumne. They love Rabbits-flesh, and Geese, chickens, and other foules. They breed their young as foxes, and bring forth in three months, sometime two, sometime three in autumne. They hate foxes, for these watch when they are gone abroad, and so bedug their holes, that they must seeke another for the stinke. They are so thick-skinned, that you can scarce hurt them, but their nose is so tender, then there you may kill them. Their skin is so pud, that dogs cannot fasten on it. He turns on his back, and with teeth, and feet, resists the beasts that vex him. Knowing himself to be short-legged, he goes not far from his hole. When cold weather presses him, he skulks, and fattens by sleep. Bring him in winter by the fire, he casts himself among the coals. The Moore waxing, he fattens, in the wain he grows leaner; men say, but it is uncertain. His bite is mortall, because hee feeds on hornets, and venomous things. Olaus shews their ingenuity in digging, and voyding their house of the earth, and strewing themselves a bed therein with chaff, and leaves, bringing so much on their heads, and with their feet at once, as a man can carry under his arme. They ever have two doores to their house. When the South-wind blows, they open the North-dooer; and when the North-winde, the South-dooer. They lay up winters-provisions; and the male keep the female from eating too much, least they should want afore Spring. When they grow blind for age, they keep house, feeding one another at home. When they are spied, and hunted on hills, they lay their forelegs over their head, and ly round like a globe, and as Bears tumbled down. In Italy, Germany, and elsewhere, their flesh is counted a dainty, if taken in Autumne. They feed it with pears in Switzerland. Savanarola likens it to wilde porke; Platina to Porcupines-flesh. In *Philisick*, they put the fat into glisters to helpe back each; it helps chapped nipples, and gouts, and shrunk-members. The blood dried, heals leprosie. It is given with salt, and beasts-horn against the plague. Lonicus describes it only in the dog-dayes, and prescribes two drams.

Gesner faith, that the same blood in a composition with Armeniack earth, Saffran, and Tormentil, is a receit in the most raging Pest. The ashes stench blood. To say nothing of the brain, tooth, or left foot, which tied under the arme, is said to help memory. Of old they wore Badgers skins. Dog-collars are made thereof.

Some are tame, you may play with them; some are wild, and rough-bristled; some are Dog, and some Hog, Badgers or Grays, both taken in the Maticonensian Territory. The Dog-Badgers have a Dogs grin, and dig their holes in gravelly places; they have not many borroughs; feeding on carcases, and Dogs-meat. They are whitish, and bigger then Dogs, with their snout they dig a small hole near their house door, where they hide their dung. They eat roots, and fruits, and what swine love to feed on. The Heygrat, (or hony-devourer) in America, of a Chestnut-colour, as big as a Cat, is a kind of Badger. They ever hunt after Bee-hives, or the trees where wild hony is, of the like kind is the Quanepecoti about eighteen inches long, long snouted, slender, withneth upwards, long tailed, and haired, shining about the belly; the rest dusk, or black, and glittering; the back blackest; black-footed, and crooked-nailed; easily tamed; ravenous; spares nothing eatable; gamefome a thousand wayes; harmful to strangers; found in New-Spain among the hills, where he delights to be. Akin to this is the Tacuinecuni, or Cynodactilus in bulk, snout, qualities, and feet. It is white, but hath large black spots; having the name from biting. Lives not far from the South-sea: Like to these is the Talcoyotl, hairy, two spans long, Badger-clawed, short-legged, and black, short-tailed; having a small head, a slender, and very long snout, teeth sticking out; his body of a yellowish white, but on the back, and upper-parts of the neck black, and bright streaked, and feeds as the Quanepecoti.

CHAPTER VII.

Of the Castor, or Bever.

CALLED by the Greeks *Kastor*, from *Castor*, the belly, because he is almost belly; not from castrating himself, when pursued for his stones, as some ridiculously derive it, for they are so small, and cleave so close to the ridge of his back, that he cannot come at them, nor while he lives, can they be plucked from him. He is called Fiber, not from frequenting the brinks of Rivers, that of old were called Fibri, but from *Fiber*, soft, because his hair is so. Some have mistaken him for the Otter. Nor is it the Latex in Arif, nor shall I decide it, whether it is the Orchia, or no: Some have counted him an Amphibium, or half a fish, because he lives both on land, and in the water. He is of a bright ash-colour, but blackish-backed; finer haired then the Badger, & the blacker the skin, the costlier.

His teeth are very sharp, wherewith he can cut wood; the foreteeth are red: The forefeet like Dogs-feet, the hindskinned like Goof-feet, each five-toed. Tailed like a fish. In the greater, a foot and half broad, and six fingers, two thick; sometimes weighing four pound; thin at the edges, a thin skin, and smooth, and pale, streaked with admirable artifice. In the privy parts he hath two swellings as big as a Goose mouth, on each side one; these are lappets covered with a thin skin, in the midst a passage, whence sweats out a fat, clammy-moyture, wherewith, after wiping his mouth, he anoints all the parts he can come by; as some Birds that have in the same place a small bag with a moyture in it, fetch it thence with their bill, and anoint their feathers, to keep them moylt, while they remain in the open aire. In tongue, heart, stomach, guts, and liver divided into five laps, or fringes, he resembles a Hog most. His gall lurks under the lesser laps of the liver. His spleen is but small for a beast of his bignesse. His reins as great as a Yearling-calves, and fat. The bladder like a Sowes. The testicles small, and cleaving to his back-bone. The femal hath but one passage for all natural uses; the necks of the womb and bladder meeting there. *Gesner* in dissecting a Beaver, found in a bag a yellow matter, solid, waxy, sharp, not earthy, of a pound weight; and the genital to consist of one bone, and in each knob another small bag with a boned-kind of substance in it, smelling like mouldy rotten cheese. The like is in the femals, but weighing hardly an ounce. Wherein *Belonius* found bones as big as an egge, but without doubt it was counterfeite. Bevers are found in Burgundy, about the River Matrona; and by the Sein in Cabillon, and in Lorain. Austria, about the Danow, where they are called Biseri; in Helvetia, about Arula, Rusa, and the River Lomagus; in Poland also, Russia, Prussia, and Italia; especially where the Po disburthens himself into the Sea; Finally, the best are about the Rivers of Pontus, and in Spain. They haunt rather the Northern-waters, then the Rhine, or Danube, or other Rivers troubled with Navigation. But where ever he lives, he lives partly in the water, and partly on the land. Therefore they make their holes by River-fides.

They feed on tree-leaves, as the Poplar, &c. but they covet most the broad-leaved Willows, because bitter. Not on fish, as *Albert* mistakes; for *Pelicerius*, Bishop of Montpellier, laid often afore them fish alive, and dead, but they would not so much as smell to them.

In the beginning of Summer, under the constellation of the Dolphin with Sagittarius declining, they couple. They bring forth at the fall of the leaf. The voice of the Beaver is like the crying of a child. They never leave their hold in biting, till they hear the bones crack; when you keep them tame, they are so modest, that they never foul the house with their ordure, and they cry, and whine, if they cannot get abroad. They love their young fo, that they

will break through doors, and grates, and cast themselves down headlong for their sakes, as the forenamed Bishop relates. They feed themselves with their forefeet, as with hands. They wet their hinder-parts often, because the barks of trees bind their bodies, or for that but little gaul flows to their guttes. That opinion of his biting off his testicles, when hunted, is false, rising from his craft in hiding them. He is observed to be very cunning. As appears by the wife building, and preparing of their house, in carrying of the materials on the old ones lying on their backs, and packing the wood handfomely between their thighs, and dragging them by the tail to the appointed place, which makes the old ones backs so sleek. Those that the Scythians call *Drudges*, gather apples, cut barke, others lay them on the backs of two yoked, having framed a hurdle of sticks to that end. The same by the black ones, which are called *Masters*, direct by their gate, and posture the rest; being to cut wood, they ever hold the same track from the river to the tree; never leaving a tree, till they have gnawed it almost asunder; and when it is near falling, they take care that it may not fall on that side where they stand. In a word, they build their houses higher, or lower, as the river runs, and shift lodging the day afore it overflows.

The flesh is not unfavoury, if in dressing the venome be removed. The foreparts are hot, the hinder fo cold, that, like Tortoyses, they eat them onely on fasting-dayes. The Loranos count the tayl a delicate, it coming near the tast of a Lamprey. Some sprinkle it with Ginger, and roast it. *Gesner* saith it tastes like eel. In *Phyick* the Bevers-gall, piss, tayl and skin is usefull. Beaver compast with many natural skins, with a waxy moyture within it, of a tart tast, and a strong sent, is said to be the choysiest; which is to be plucked from the beast in his ripe vigorous age, and to be dried with the Hony liquor in it; it will hold the vertue seven years, it helps the falling-sicknes, and lethargie, if boyled with rue in keene vinegar, and the swimming in the head, if the crown be annointed with it, and vine-seed, and oyl of roses; and it helps losse of memory after chronical tedious diseases, and against short-breath with Ammoniac, and honied vinegar; also against hickok after much eating. Ealsens collicke, in juice of vine, and boyled in vinegar, applied as a cataplasme on the breast, and secerets, is good against running of the reins. A perfume of it, furthers conception. Eases womens griefs, rising from cold causes. Purges a woman in child-bed. Opium corrects it best. Finally it is an ingredient into many medicines, as waters, extracts, oyls, ointments, waxes. The *curd* helps the falling-sicknesse. The *pisse* poyson; the *tayl* wounds in the guts. The ayles of the *skin* burnt with soft pitch, and leek juice stanches blood. It is a good wearing for the palsied. The teeth are worn for Amulets. The *fat* is a good bait to catch fish. The softest hair makes hats,

hats, and breeches. The Geloni make of the skins furred coats. We finde no differences of the kinds; onely the Scythians distinguish them into black, and reddish, or yellowish, and party-coloured, calling those masters, these servants.

CHAPTER VIII

Of the Otter.

Called *Lutra* from *Lutin*, either looting-trees at the roots, standing by the river-fides; or from often walling it self. In Greeke *Enudria*, from living

in the water. *Suidas* mistakes the *Idris* for it. *Sylvaticus* miscalls it *Hydria*. *Gaza* calls it *Lytria*: *Ætius*, a river-dog. He is slenderer, and longer then the Bever; toothed, and headed like a waterpanell; square-mouthed, eared like the Beaver; the tayl long, round, and pointed at the end; the legs like a foxes, but somewhat thicker, the hinder-feet flat, and skinny, he is not so thick-skinned as a Castor, hair thick, and short, almost chestnut colour. They are found everywhere in Europe. They swarme in America, especially in Canada, most about streams, and lakes, reckoned among those that live both in water, and on land. They abound in the Naples territories. They feed on fish, wherof they carry so much into their holes, that they infect the air. They eat also the soft tops of herbs, and fruits, and bark of trees. In winter he forrages for his provision.

In diving they draw air by degrees into their nostrills, to prevent drowning. In their hole they frame a table-work of bows, and rods to hold them dry, as they ly. They can out of a river swim a fish-pond some miles off. They draw breath easest with the stream. When hungry, they swim against, when full, with stream. Entering a fish-pond, they seafe the best fish with a strange nibleness, and fright them all. They are easily tamed, and are taught by signes to dive, and catch fish. In Swedenland, at a Cooks-beck they fetch fish out of the pond into the Kitchen. In Germany, and France, Peasants eat the flesh, but it is grosse, and flegmaticque, Carthusians are allowed to eat it. In Phisick the *fat* helps the joints. The *blood* mixt with water and vinegar, takes down the swelling of the nerves.

The *testicles* are approved against the falling-sicknes, but fall short of the Bevers. The *liver* baked, is good against the Dylentery; a cushion of the *skin*, easeth the Emrods; the skins help the palse, giddinesse, and head-ache. Shoes thereof ease the pain in the feet. We in cold climates make gloves, and halfe sleeves of the whole skinn, tayl, and all. The American beasts, the *Saricoume*, and the *Coryqueibin*, seeme to be a kin to them. The *former* is as big as a cat, soft-haired, whitish, skinn-footed. In Amphibia they are. The *latter*, called also the *Jyja*, is as big as a reasonable dog, round-headed as a cats, but more coped; eares round,

and standing lower; footed like the Baboone, each hath five toes, the inner most shorter then the rest, soft-haired, not long; black all over, except the head, which is dusky. Hee hath a yellow spot on the throat. He lives on lobsters, fish, and mandow meal, moyltened in water. Of the Su elsewhere.

CHAPTER IX.

Of the Ichnemou.

He hath his name from *Ichnemou*, from searching; he being able to distinguish between foyson and poyson. Called Dig. 1.2. also a *swine*, from his hair being fo like. Miscalled *Ibis*, and *Anschycamus*. Called also *Thyamon*, and *Alcahis*. In Greeke *Ulos*, a little hog, because with his snout he is ever rooting. At this day stiled the Mouse of Pharaoh, or Otter of Egypt. Of the bignesse of a Cat, but longer, hair hard, as a Wolfs, bright, and yellowish by spaces, and russet; black-snowed, and like a hog; short and round-eared, legs black; on the hinder-feet five toes, the left inner one very short, the tail long, and thick; the teeth, tongue, testicles, like a Cats; having, beside the passage of the excrement another wide one without, which in hote weather he uses to open; whence writers have thought them all double sexed. Some thinke that Egypt only produces them; but they are found on the other side of Atlas, near the heads of the Nile. It is an Amphibium. They feed on Mice, Snakes, Snails, Lizards, the Chamæleon, Frogs, and the like: They love fowles, especially hens, and the Crocodiles liver; and therefore, as it is thought, they creepe into their bellies, while they sleep, whence there is great enmity betwixt the two creatures; so that if one finds the others egg, he breaks them, which is well for the Egyptians, since it prevents the increase of the Crocodiles. He is also at enmity with the Asp, and all kinds of serpents. He hates the wind moist, so that it begins to rise, he hastens to his hole. They are tamed easily in Egypt; they destroy rats, like cats, or weasels; they love to be plaid with; they shun cold, hide their heads between their legs, rousing themselves up like a Hedge-hog in a ball round; set up their bristles when they spy any beast; dare encounter one great dog, and choke a cat at three bites; venture on horses and camels, and any sort of beasts. They whelp as many at a time as bitches doe. The relations about their changing of sex are fabulous. Their wit is sene herein, that they stand on their hind-legs to prey, and creep slyly till it be within reach, and then furiously fasten. Hee never ventures on his foe, till hee call his fellows. Being to fight with the Asp, hee wallows in mire, and then drives it on in the sun, till it serve him for an armour of proofe. If there be no mud near, he wets himself, and rouses, and tumbles in the dust; knowing his nostrills tender, in fight hee saves the m with his tayl. In Phisick his piss, some drinke

Place. Arist. H. c. 22. Defcript.

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Place. Arist. H. c. 22. Defcript.

Ufe. with a black cows milk againſt the collick. The afhes of the ſkin burnt in vinegar, cures a ſting of a Serpent, ſmeared on. A fume of the hair is good againſt wormes.

CHAPTER X.

Of Weefels.

ARTICLE I.

Of the common Weefel, or Ferret.

Almoſt all Dictionary-writers fetch the name *Muſſela*, (Weefel) from *Mur*, and *Telum*, a Mouſe, and a Weapon, becauſe of his length: ſome from *Teel*, longe; at length, or from far; or from *Mus*, and *Stellon*, mouſe-ſtealing, becauſe they draw them out of their holes. Of old *Galea*, from the milky whitenes. Some *Kedroo*, from his fox-craſt. Of late *Namphitza*. It is reddiſh on the ſides, and back; ſometimes yellowiſh, ſhort white about the throat: Slender-bodied, ever-tayled. The teeth leſſe then the mouſes; the heart ſmall, yet in compariſon with that of other beaſts, great enough. They are found everywhere; but the white moſt in Northern Regions. The great ones are in Mauritania, the greateſt, in the Tartarian territory without Hercules his pillars, by Caſes. In Java woods they are. In the Iſle Pordeſelene they paſſe not their bounds. Bring them into Bæotia, they dy, or fly. They dwell in holes, clefts of rocks, haymows, and ſtables. He eats all things; moſt what mice, and moles; he abſtain not from ſerpents; he lies in wait for bats; he fucks Pigeon-egges, and the blood of birds killed, picks out dead mens eyes, catches hares; he hath been ſeen with one in his mouth. That they bring forth at the mouth, is a tale forged out of the fained turning *Galanthis Alkmenas* Mayd, by Iuno into a Weefel. That they have a womb, is certain. The Raven, and crow hate them for ſucking their eggs: their voyce frights hens; they fight with Cats. They fight with ſerpents, armed only with a ſprig of run, or with ſowthistles; if they want theſe, they are worſted. Their dung, if they live in fields, and woods, ſmells like muſk. With their age they change colour. They recover their whelps fight with an herb; are eaſily tamed, if you rub their teeth with garlick. They dare ſet on greater beaſts. They build their holes with two doors, one North, the other South. They tranſport their young thence for a dayes ſpace. Their bite is mortal, and makes mad; if it but touch a Cows udder, it is inflamed. Oyl where in the Weefel hath rotted is a remedy, or rubbing the place with the ſkin dry. Ariſtides of Locris died of the bite of a Weefel. The Mexicans eat them. Galen ſaith that corned with ſalt, and dried the fleſh taſts like Hare. The brain dried helps not a little againſt ſwounding fits. The ſtomack ſtuff'd with Coriander-ſeed cures ſerpent bites. The lungs are

good for the lungs. The liver helps giddineſſe, and ſwounding, becauſe it increaſes, and decreaſes with the moon. Pliny commends the gall againſt all venome. Mathiolus uſed it with Fenell-water againſt dimneſſe of ſight, and ſkin ſpots. The yard dried is ſoverain againſt the ſtragury. The ſtones, and womb, like the Eagle-ſtone, prevents a womans miſcarrying. Lonicerus cries up the blood with juice of Plantain againſt the gout, Galen, againſt cataris. Mathiolus magnifies the dung taken in hony, with pulſe-meal, and ſeny-greek againſt ſwellings, and wens. The Weefel whole is of uſe, Dioſcorides commends it unbewelled, and long pickled againſt ſting. Galen uſed the duſt Gaſt. 13. dried againſt the falling-ſickeſſe. Mathiolus 6. 2. the aſhes of it burnt made with water into a dow, againſt head-ache, dimneſſe of ſight, and blood-ſhot, ſmeared on. Marcellus burned it to aſhes in an old pot, and mixt them with hony on a third day, in the wane of the moon againſt ſwellings of the jaws. See Ambroſine about the divers uſes of it. A Weefels foot hung with roſe, and muſtard-ſeed on the branches of a barren tree make it beare. Farriers with a piece of the ſkin have cured Horſes of the parous diſeaſe, called *Tach*. Some ſprinkle ſeeds with the aſhes on their ground to drive away field-mice; others ſeeth them in much water to that purpoſe. Some make the Weefel, and Idis herein to differ, that the one is kept tame, the other goes wild. Others call the white one *Hermellani*; that that is white only on the breaſt *Viſela*. The Roſola, or Guilela, his dung ſmells ſweet. One is called a *ſalamander*, for his many colours. The Auſtrian *Girella*, is of the bigneſſe of a Weezel. The Italian Carriers ſhew a ſkinnie black, and glitſhing brought out of the cold Coaſts, called the Roſoleus, or Romulus. Some count the Chiuca a Ferret. The *Vormela* mentioned by Agricola, is another; and Cardan adds the *Lardiani*, and the *Gemetia*.

Scaliger writes that the *Chiuca* hath a ferrets face, and bulk, a foxes head, lives under ground, is very fruitful, bringing at a birth twelve at once. The tayl ſmall, and almoſt bald; It ſelf is black-haired, carrying her young under her belly in a bag. The *African Ferret* is as big as a great Mouſe, reſembling a Ferret, and a Squirrel, liſting up the tayl, but not over the head as the Squirrel; but high, and ſpreading it abroad, and ſitting eating on the breech, holding his food with the fore-feet ſquirrel-like, and toſſing it. In either jaw were two longer fore-teeth, the ears roundiſh, the haire party-coloured from head to tayl, ſandy, duſk, and white with ſtreaks. The tayl very handſome, he could diſplay it like a Pea-cocks five toes on each foot: ſoure forwards, the middle-moſt longeſt; the fifth like a ſpur behinde. He reſuſed no food, but liked bread beſt; he was tame, and went looſe. On ſhipboard they come into the mariners laps, and ſtockins, ſo tame they are. Nieremberg calls it a *Lybia Weezel*.

ARTICLE

ARTICLE II.

Of the wilde Ferret, or Fitcher.

Some call it *Putorius*; ſome *Furo*, either from his theevy by night, or his darke colour, from his digging, and myning in burrows; ſome *Viverra* or *Ferret* from *vertunno*, ferritting, and driving beaſts out of burrows. Alſo *Iktis*, from a bird of that colour; and *Phalita*, or *Pholenta*, Coloured betwene white, and box, and white-bellied, reddiſh-eyed; greater then a tame Weefel. Ariſtotle makes it of the bulk of a Malta-whelp; but in hair, ſhape, colour (white below) very unlike the common-Ferret. In Italy, France, and Germany, they are not, but onely in Africa, and in England. He lives on hony, fiſh, pigeons, and Conies, which he likes beſt of all. The females dy with heat, if they couple not, when luſt is on them. They mix as cats, and bring ſeven or eight in a litter, they carry them forty dayes; the young after for thirty dayes are blinde; and the fourtieth day after ſight comes, they go a hunting. Provoke them, and their dung ſents well; when time in boxes, they ſleep away moſt of their time. In Narbon, France, they hunt Rabbets with them; and elſewhere they fetch with them dirrs out the high neſts, that men cannot come by. There is a peculiar kind in Zeilan, ſoe to the crowned Serpent, he bites on the roote of ſnake-wood, when he goes to combat with him. The *Hamſter* is of this kinde, bigger then a tame Ferret; the back is Hare-coloured, the belly black, the ſides ſhining, feet ſhort. He is a great gatherer of grain into his burrow. Thuringia is full of them, called *Putorius* from his ſtinking breath; and *Icktis*, becauſe he loves fiſh. Scaliger calls him a ſtinking cat. Bodied like a Mattern, but bigger; narrower necked, broader bellied, blacker on the tayl and thighs; the ſides yellow. It hath a double ranke of hair, ſome ſhorter, and yellow; other longer, and black, the left legs are not ſhorter, as ſome think. They inhabit garners, ſtables, woods, and bank-ſides. They feed on Mice, Hens, and other ſowles (whoſe heads they ſtrait pull off) fiſh, frogs. In Spring their ſkin ſmell ſtrongly, in Winter not. There alſo the *Noerza*, as big as a Pole-cat, of an Otters-colour, is a ſtinking beaſt, lurking in wood-corners.

CHAPTER XI.

Of the Mattern, or Pole-Cat; and of the Zibelline-Ferret, or Muſk-Cat.

The *Martes*, or *Mattern*, hath the name from his fierceneſs, called alſo *Martia*, *Marta*, *Marrus*, and *Foina*, *Gainus*, *Seſmus*. His teeth pure white, even ſet, and keen. The dog-teeth in either jaw

hang out, fix ſmaller of diverſe length are between, in ſtead of cutters, and are very ſmall in the lower jaw. The grinders are eight, and like ſaws, ſome ſingle. The utmoſt above ſtand more inward then the reſt by much. Under the ſkin are ſnewy ſmall veins, ſtretched out, answering all the ribs in number, and order; the ribs are fourteen. No membrane fleſhy. The *muſcles* of the paunch are between the two tunicles of the rim, which makes it ſeeme thicker, and groſſer, as the horny-film of an Ox-ey; fleſhy in length by that line, that answers the navell, but not abroad, and onely below. The *kell* faſtened to the ſtomack, entrails, and milt; the milt very ſmall, hanging on the left ſide of the ſtomack, and a part of the kell faſtened to it. The *ſtomack* bigger then ordinary for ſuch a ſmall body, conſiſting of a doubled coat, the outmoſt whiter, the inmoſt ſmoother, both thin. The *gut* faſtened behind to the back-bone by a thin ſkin. No blind gut, all uniforme. The *bladder* very long, thin, but inclining more to the ſtomack. The *liver* of ſeven films, the weakeſt three-parted, like a chicken-foot, the middle three-cornered, annexed to the hollow vein, a litle way by a thin ſkin. The right *Rein* is higher. The left *Emulgent* longer then the right; both ſprouting from the great artery, not from the hollow-vein. Yet I doubt of it. By the hollow-vein are here and there reddiſh, and yellow *kernells*; the uppermoſt on the right ſide joyns to the liver by ſmall veins. The *hollow vein* ſends many ſprigs through the loyn-space of muſcles to the back bone; and the great artery lies under the hollow. The ſeed-veſſels deſcend from the midſt of the reins, but are parted in two on either ſide below, one branch joyned to the ſtone, reaching without the paunch. The *yard* ariſing from ſtrings of *os ſacrum*, is griftly, and hard as a bone, writhed at top like an wimble-ſkiud, cloſe, ſharp as a needle. The right urinary ſit higher into the bladder, then the left; a fine ſinew comes ſtrait down, tied to the right ſide, ſit into the beginning of the hollow vein. Alſo a ſmall ſinew on the left-ſide, deſcends to the ſtomacks-mouth. The hollow-vein is ſet into the right ventricle of the heart, neare the right lappet, which is black, and full of blood, and greater then the left; this is white, and bloodleſs, hollow, ſpreading on the right ſide into the lungs. The great artery is ſet into the hearts left ventricle, bending downward. The hollow vein on the right, paſſing a litle above the lungs-branches it ſelf, into fix ſprings, riſing to the lower jaw. On the right ſide the lungs, conſiſt of ſoure leſſer veins, on the left of two greater. They are moſt in the North, and in the German Alps, Southward, and toward Italy. They inhabit the roofs of greater houſes, and beech, and firre-woods. A Boor told Geſner, that in a very high firre-tree, he took a Mattern, and four welſes. France hath no ſuch. Out of Poland are ſome brought of a ſlight duſk-colour.

against burtings; the Feet cut off while he lives, eafens the Gout; the Piffle with Spiknard is a wholefome drink againft Dropfie; the dung born by a woman, hinders conception, but put under, helps the months, and dries, burn the whole Hare, the afhes taken in warm wine, helps the Stone; whereof alfo is compounded an electuary, whereto Jew-ftone, and fponges found among fmall ftones are added.

Hares differ in colour, bigneffe, fatneffe. Some are blew, others in a black-foyl, dusky, others on red-foyls, gliftering. In America are found fome with the black Hare coloured, the fides white and black, the reft white. There are white ones on the Alps, and on the hill tops by the vally of Anania. *Gifnar* faw one milk-white, with black hair on the ear-tips, and found the flefh tender in tafte then other; the Elymean are as big as a Fox. In Macedon, and Tranfalpin-Gual are great ones; in Italy, and Spain, leffe. In lower Hungary they are obferved to be fatter then in Italy. One kind is faid to fent fo of Musk, that they make the hounds mad that hunt them. Some are called mountain, fome field, fome marifh, fome Italian, French, Spanifh, Indian Hares. The Italian are low-footed afore, black-backed, and white-bellied. The Mountaineers differ from others in their black-hew, bulk, wildneffe, and thick hair; the French are moft what bright. The Spanifh comprehend Rabbits, there is one in New-Spain called by the Natives *Citli*, fhaped as ours, and feeds fo, but with ears very long, and broad for fuch a body: The Indians weave the hair into clothes and fheets, which they wear for cloaks. The Brafilians have their Conies of the bigneffe, fhape, and tafte of the Hare; yellowifh, little eared, and almoft no tail. There is a greater kind called *Pacaz*, round mouthed, Cat-faced, dufk, with white fots; tender of flefh, and skin alfo, therefore fought after as a dainty. There is alfo a kind that the Indians cudgell to death; then flea it, and work the blew-beaten-flefh into a Pafte, which they wrap in the skin, and call Musk.

CHAPTER XIV.

Of the Cony.

HATH the name from myning, and burrowing under ground, and dwelling there; called by *Ethian* a little Hare, or Leveret; by the Greeks *Sunax*, *Dafupous*; which yet *Pliny* feems to diftinguifh from both Cony, and Hare. *Strabo* calls them digging Hares, and *Leberidas*, perhaps from the Serpents-flough; whence a young one newly kindled, and hairleffe, is termed *liberis*, *laberis*, and *lauris*, or glib. Alfo *Adapis*, perhaps from *Adapans*, that cannot be fpent; fo fruitful, and numerous they are. By *Erotianus*, *Limopois*, death-bringer. All the Belly-mufcles cleave afart between the two skins of the Peritonæum. The ftrait gut fmall; the heart little,

the liver great, and the reins, the milk long like a Swallows, or Cocks; the *Parapair*, or *Byliver*, fhaped like a fhoe-makers broad handled knifelying in the midft between the broad liver ftrings; the ftomack not unlike a Hogs, very like a Moufes, or Dormoules; the *Cytis* finally fattened to the liver; the blind-gut more then a palm great, celled, and hath an appendix of three fingers; the turning joynts of the loyns long, between which ly fair mufcles. *Pliny* denies there are any bred in the Ifle *Eubufus*; but they fwarm in France, Italy, Mauritania, Mufcovy, Poland, England, &c. About *Mofaicus*, a Mufcovy-town, they are numberleffe; but they abound moft in Spain. In the *Baleares*, *Majorca*, and *Minorca*, they devour their harveft. In *Zeland* by the Sea-fide there are many, enough to furnifh all *Brabant* in Winter.

They feed on graffe, three-leaved graffe, cabbage, lettuce, cicory, turneps, and apple-parings, and efpecially bay-berries. Mans-blood fattens them apace; they cannot away with moyfture; they couple every fix, or rather twelf moneths, and *kindle* monethly in hot-countries. One that kept Conies, relates that fome have brought three young at once; and after a fortnight as many more. But in Germany, and Italy, they feldome breed in winter, they bring five or nine at moft; that of their double-fex is a fiction; they fuck oneantwenty dayes; if any handle them, the dames are angry, and either forfake, or hurt, or kill their young: And the males doe the fame, if the females are bufie about their young, and neglect them. By leaping Rabbits, cape taking; they forfake places, where they are in danger; and one going, all the reft follow. It is known that they chew the cud; through envy they will bite one anothers ears, and legs off, yet are eafily tamed. *Cardan* knew one of it felf follow the dogs; they dig them burrows with many outlets. In Spain they in a fandy foyle undermined, and fubverted a fair town, fo that the natives muft feeke other dwellings; they come not abroad, but mornings, or evenings; and go not far from burrows, and flop up the entrance, to prevent difcovery by the paffengers; their flefh, efpecially of the young ones, is tenderer then Hare. A Spaniard was the firft who made it a dill on his table; they care not in Spain for tame Conies, they taft too much of their food, but wild are a dainty. They parboyl them, and ftuf them with fweet herbs; and lard them with pork. In *Phifick*, the fat refrefhes the finews, and helps watering: Burned, it cures the inward ague; they differ in colour, bigneffe, innards, and places: There are white, black, yellow, afh-coloured; pied, bright, ftated with black, and gliftering fots. *Valerian* faw at *Verona* with a Jugler one fourtimes as bigge as ours, and ftangly fat. *Pliny* thinks that the *Betick*-Conies have double innards. Some called *Urie* in India, are no bigger then Rats. I leave to the reader to judge, whether they are Conies that *Scaliger* describes, of Hare-colour, fhort-eares, thick-body,

Zoorren,
Dance.
P. 327.

Place.

Scaliger.

Food.

Gendering.

Niphus.

Id. lib. c. 9.

Nature,
and Wit.

M. Varro.

Uie.

Marcel.

Ambrofin.
Differences.

Nieremb.
H. E.
l. 9. c. 8.

Nature.
Wit.

OF THE FOURFOOTED BEASTS.

body, and well fet, long-tails like the Squirrels. Some call them *Pharois-Mice*, fome *Indian-Hares*; there thofe they call *Indian-Pigs*, of the bignes of our Conies, but fhorter-legged, on the fore fix toes, on the hinder-feet five; they have Mice-teeth, no tayl, a fharp Muzzle; Ears little, and round, rather briffled then hairy; they gruntle like Pigs, they eat all herbs, fruit, bread, oats, living many month without water. One male is enough for feven, or nine females; admitting of fupercatation like Conies. In winter they kindle, in 60 dayes all feeing. The males fight afore the female. We have added the picture of another *Indian-Cony*. Some make nine forts of *Indian-Conies*. 1. The *Pailli*, as dainty as thofe in Spain, if it live where good graffe grows. 2. The *Elizabaili*, or white-breast. 3. The *Cuailtepatli*, or fhort tayl. 4. The *Tocantaili* of Peru, fhaped like the Mexican Mole, called *Tuca*. 5. The *Quauhtaili*. 6. *Metochli*. 7. *Cacotochli*. 8. Another *Cuailtepatli*. All differing in fhape, and name, not fo favoury, and delicate of taft as ours. All this I had out of D. Franc. Hormandus his manufcripts. Out of another, that there are fome fomewhat leffe then the *Caftellani* tayl like a filh, well-tafted; living on hills, and graffe places, and not in burrows. There are foure forts of them. 1. *Quemi*, greater, and harder. 2. *Utia*. 3. *Mobias*. 4. *Cutie*, little, daintier, and wholefomer. There are *Vifcachas*, long-tailed like Cats. They love fnow, and batten on it. The Hair of old hath been valued, and of ufe.

CHAPTER XV.

Of the Squirrell.

THE firft who called this fmall beaft *Sciurus* was *Oppianus*, who lived in the time of *Antonine C.* fo called from the fhadow of his tail; and *Kampfours*, from *Kamptein*, becaufe hee bends, and turns up his tail ever on his back; and *Eleim*, a Dor-mouse; and *Nitela*, from climbing; and *Pirolus*; and *Spiriolus*; and *Seurulus* from running. A kind of Moufe he is. His lower-teeth are longeft; and the blinde-gut, anfwering the ftomack. They are found almoft every where; efpecially Northward, where their colour is faireft. They feed on apples, cheffe-nuts, and other nuts, beech, and pine-apples, and acorns; and in Summer they hoard up againft Winter. In Spring they gender, and build nefts of fticks, and leaves, on the higheft boughs of trees. They bring three, or foure young at once; that are faid to leave their neft after they are three or foure dayes old. They can ufe their fore-feet like hands, are eafily tamed, and chatter: going, they drag their tail after; fitting they turn it up on their back, in leaping it is in ftead of wings; in fcorching weather it yeelds them fhadow, paffing waters it ferves for a fail, they make a bark of a tree their fhup in their holes they have many outlets,

which they flop, or open as the wind ftands, or forefeeing a ftorme.

Some drefse them to eat, the *Velleians* hold them for a delicate. The fat mollifies. *Galen* commends it highly againft ear-ache. Juglers abufe the teeth to fortune telling; they differ in colour, and according to their place. In Germany they are in the firft year black, when bigger, red. In Poland gray, and flame-coloured. In *Ruffia* all afh-coloured. In *Podolia* fotted. Some are called *Pontick mice*; the *Getulian*, and *Indian* are pied. The *Pontick* lives about *Pontus*, and ufed there for weare, called alfo the *Laffican-moufe*, and the *Venetian*, and by the Pole, *Popieliza*. He is afh-coloured in bright, the tail not fo bufly as others, but natured as the common Squirrell. He is buried all winter in a deep fleep, fome on the back are more afh, fome more fere red. The *Getulian* is partly-coloured red, and black, ftreaked handfome with white, and dufk from the fhoulders to the tail through back, and fides, leffe then the common one, with hanging ears, almoft as big as his head, round, fetched through the furface of the skin, long headed like a frog. Of the *Indian* are five, or fix kinds.

1. The *Quauhtechallot*, the *Tilitik*, or *Hiocotequillin*, fo called from the black colour, and the pine-tree, where he dwells. He eats the pine-apples, in the hollow there he lays up his winters provifion; there they keep their brood, and gnaw all round. They are fubtile, chirp like fparrows, the tail is woolly, and can cover the whole body. They are eafily tamed, and brought to eat any thing. Eating, he ftands on his hind feet, and holds his meat with the forefeet, lifting up his tail, but running he ftretches it out at length. Anger him he raifes his hair. They make winter-foures of the skins, which are warme, and handfome.

2. The *Quauhtechallot*, *Quapachtli*, or *Corticolotequillin*, fo called from the clay-colour of the belly, twice as big as others; and except the belly is white, black, and dufk; the tail long and bufly, that can cover him all over. They live with their young in burrows, eat *Indian wheat*, which they takeout of the fields, and lay up for winter, they are fubtile, and never tamed.

3. The *Tlechallot*, with a tail half bald, and shorter, not about nine inches, is never tamed, bites cruelly, gnaw all things, is bright, and dufk, eats as fquirrells, and moft maiz, hath great eyes, digs himfelf a burrow, ftrews it with wool, cotton, or any foft thing, lives there, and chirps like a fparrow.

4. The *Thalmototli*, of a fpan long, great-headed, and eyed for fuch a fmall body; the tail long, bufhy, with white, dark, and black ftreaks, and can cover himfelf therewith, the body is pied, fometimes inclining to yellow.

5. The *Quinnichpatlan*, or flying moufe, black, fhaped like a fmall bird, long near the arms, and thighs; he goes from tree to tree, as if he flew; leffe he is then the reft moufe-headed, great eared, feed as the other. The afhes

Uie.
Buyer.
l. 13. de
recib. c. 29.
Differences.
Cromerus.
Arist.
Pliny.
Amb.

Hier. H.
E. l. 9.
c. 34.

Ambrofin.
Dig. Name.
c. 10.
fig. 1.
w. 1.
c. 10.
w. 1.

Belluacen.
Decript.

Place.
Food.
Gendering.

Matthio-
lias.

Montag.
l. 2.

Differences.

Plin. l. 18.
c. 55.

Manard.

Ambrofin.
de Digit.
l. 2. c. 23.

Varro.

Nieremb.
H. E. c. 8.
l. 9. c. 8.

Amar.
Lutician.

Name.

Uie.
Differences.

Strabo.
Geogra.
l. 3.

Hemol.
Diofcor.

Uie.
Differences.

of the tail burnt, are said to easen child-bearing.

6. The *Yztaechalot*, like the rest, only the head, neck, and buttocks at top, yellow, and the tail hath blew spaces, and whitish, and yellow streaks; the rest of the body is whitish, whence it hath the name.

CHAPTER XVI.

Of the Dormouse.

Called *Glis* from *gliscere* to wax, or grow fat, resting, and basking all winter in its hole. In Greek *Elaion*, of old *Gelaion*, (whence happily *Glis*.) so called from living abroad, in woods, or in winter in hollow trees sleeping; some call him *Lagoneiron*, the sleepy Hare. Some *Muzgon*, from the sharp Muzzle, for such it is, and long, the Ears very sharp, the tail not so bushy; the belly frutting out more than the Squirrells; sides and back ash-coloured, some yellowish on the belly are taken. They are not only in woods, but also about country-houses. It is a mistake, that there are none in Yreland, nor where Yrith wood is; I know the contrary. They swarm neare Goricia, and in the Alps of Carniola, Styria, and Carinthia. They eat beech, acorns, nuts, apples, &c. Some say, they open apples, only for the kernels. In Winter they lie snoring, and fattening in hollow-trees, in so deep a sleep, that fire can scarce wake them, nor cutting; till you cast them into scalding water, they stir not. In Summer they couple, and bring forth at fall of the leafe. They are proudly tender of their old fires, and dames. Like Mice, they quit a ruinous house, three months afore it fall by a propheticque instinct; that winters-fattning by rest, lasts not above fix years. All that inhabit one wood, meet sometime, and maintain a flight against those of another hill, or river. All authors hold that there is poyson in them about their tail, and that their piss sprinkled on any part, makes it incurably, putrifie to the bone. Some write, that the Viper blinds, and fosters up their young, and thence the venom comes. Q. Scaurus was the first who set their flesh afore his guests, at his sumptuous Feasts: the Romans held them for delicates, whence their *Gliraria*, or Dormouse pens. They are thought best, and fattest from October to January; and the younger the better meat. In Phisick they have also place. Eating the flesh frees from dog-hunger; the fat provokes sleep, if you annoint the soles of the feet therewith: the dung drunke, breaks the stone; the same with vinegar, and rosemary, cures shedding the hair; the ashes cleare the eye-sight. There are several kinds of them. There is among the Allobroges, the Savoyards, and the Tarantese such a beast, that sleeps a great part of the year, and is of a delicate taste. In East-India are some as big as Pigs, that overturn houses, and

digge through walls. There are some reddish-haired, senting like Musk. In Chiapa is a little beast, the bignes of a Cony, shaped like a Dor-mouse; that, when she seeks her food, carries her young on her back.

CHAPTER XVII.

Of Mice.

ARTICLE I.

Of House-Mice.

Mice we divide into House, Field, Nut, Spider, Alpine, and Water-mice. The first called in Latine *Carnis*, and *Sorex*, and *Mus*, from the Greek, *Mus*; *Ratus* is the name of the greater, so called from ravening; now of late called *Riskee* in Greek. *Sorex* is from the noise in nibbling, like sawing, or from the rotten matter, that breeds them: in the Slokick *Urax*, from the muzzle like the Swines-snout; by the Thracians *Arklos*; by some *Sninbor*, and *Lamas*. No need of describing the outward parts; as for the inner, the heart is very great; it is said Varin. to have no gall. Onely in horned-beasts, having teeth on one side; and in Hares, Bats, and Mice, that have teeth on either side; is there a Sever. womb, having a hollow, whereon the embryo hangs in the midft. The *lappet* of their *heart* is far greater on the right then the left side, and that black, as gore blood. At the stomachs-mouth above is a certain round passage, turning back into it selfe, having the shape of a Bird turning, and hiding the neck and head in the breast. The *blow vein*, rising from the liver, wide in the beginning, then slenderer, but even all along. The blood-gut is like a Swines-stomack, though lesse. The *stones* as big as a Chickens, and the skins hang lower as the testicles; and the right is fuller of veins then the left. The right *vein* is nearer to the hollow vein then the left. The privy part is grittily, with a threefold parting, and sharp at end, the rest consists of two sinews. The bladder-neck hath far kennels afore: the *mid-ris* is transparant in the middle, long, and round. In a dissected Moufe, in the right horn of the womb were found foure young, in the left, two; each had its cake of flesh round, disposed afore the navell, and covered. Some write, there are no Mice in the Isle Parus; that about the Cattle Slane in Scotland, if H. Bot. you bring a great Moufe, he dies. That there are none in Peru, but those that were brought out of Spain with the Merchants-Wares; they eat corne, bread, flesh, and pulse, of onions, and garlick; they nibble on many cheefes, they sup wine, and lick oyle. If hunger-starved, they fall on each other. The females can fill themselves with licking of salt; which made Pliny think that by licking they gendered: But it is certain, that they couple, and bring many once,

once, hundred-and-twenty at a time. And some in Persia have been found with young in the dames belly. They breed also out of filth in houses, and ships.

As in India, Worms a finger thick, breed of a rotten stuff in reed, which after turn into Butter-flies, and Mice. In Jonia, through the overflowing of Mazander, Mice multiply so, that men are fain to shift their dwellings. Those that breed of filth, gender not; or if they do, their young doe not. Their noise is squeaking. They hold *antipathy* with *elaterium*, *Scorion*, *colocynthida*, the Weefel, Hauke, Cats, &c. but *sympathy* with sweet majoram, to the root whereof they betake themselves, when they all any thing; and they agree with Swine; for offer a mous-liver in a fig to a Sow, she shall follow you without grunting; as Pierius Valerian at Padua hath experimented. They are quick of hearing, and hate light by night, because it dazles them. In goldsmiths shops they eat filings of mettles, and doubles digest them. In the Isle Gyarus, they drove out the inhabitants, and nibled on iron, and steel, in the iron-mongers shops. Golden mettles, their bellies can cut through. Their piss sprinkled thereon, eats through. If they slip to the water, they hold by each others tayls, so that if one scape all scape. Albert saw in the low-countries a Moufe, hold the candle to his master at his nod, and bidding. They differ in bignes, colour, hair, smell, and place. In Arabia are Mice much greater then Rats. Vitriacus speaks of some in the East, as big as Foxes. Americus found exceeding great ones in a certain Island, most are of the colour of the Asse, some black, some dusk, some ash. Gesner saw one very white in Germany, taken in April, with reddish bolt-goggle-eyes, and a beard rough, and full of rough hairs. Scaliger saw another very bright, with flaming eyes. Albert writes of white, and very lustfull; and white stones found in their excrements. Some are softer haired then others, and some as bristled, and sharp as Hedge-hogs in the region of Cyrene; and a kind of Mice are called *Echines*, Hedge-hogs. The dung of some is *sweet*. In Italy is a kinde called *Moschardine*, from their sent. Bellonius saw one that lived on Hockyam-seed only, white-bellied, ash-coloured, backed, long-bodied, and tayled, and sword-mouthed, called *Skalaper*, by the Scholiast on Aristophanes. In Cappadocia is a kind called *Muxis*.

ARTICLE II.

Of water-Mice, and other wilde Mice.

Wilde Mice live abroad, called Nitedulaz, they with their feet dig themselves holes. The field-Mice are called *Aroucaius*, the wood-Mice *Agrius*. They abound no where so as in Egypt. Neare Thebes, after the over-

flow of Nilus, in warm weather, they come numberles out of the clefts of the ground. Between Gazara, and Belba they swarm so, that, were they not devoured by the Pere-nopters (Birds) they would eat up all kinds of feeds; they devour Hops, Parsnips, and the roots of all sorts of Pulse; they affect Artichokes most. In the year 1271. they destroyed all kind of Grain, so that a great dearth ensued. In the North they lurk under the snow, and feed on worms. They are in some places bred after sudden rains, and floods. The forepart of a Moufe hath the full shape, the hinder not. Sometimes they propagate of seed. It hath happened, that, when the mowers have intended to reap a field next day, the Mice have in one day prevented them, and devoured all in one night, at Calenum we have seene it done, saith Niphus. In Cantabria, men are hired to hunt them. The Molians, and Trajans were so vexed with them, that they sacrificed them to Smythian Apollo. They entrap them, and knock them on the head with a Spade; when they are hurt, they betake them to succour, that is their nature. Not to speak now of the Rats, with tails tufted at the end, and have a peculiar cry; nor of the *leem* that falls from the clouds in hairy rain, and lives till it taste new grasse; nor of the Napel-Moufe.

There is the Filbert moufe, of which kind there is a greater, and a lesser. Gesner kept a great one some dayes alive, it was like a Rat and Moufe-coloured on the back, the sides yellow, and especially the head, the ears great, and smooth, the belly white, feet reddish, the tail hairy, eyes broad, black, goggle, the beard white, and black, smelling like the house-moufe. The lesse is reddish, some, but few, have a sweet sent, called by the Italians *Muschardines*, by some Lucioi from their bright glittering eyes; it is very like a Spider-moufe. He nestles among the bows of the Filbert-tree, or the Flax, and also under ground, and eats Nuts. Some of them sleep from harvest to spring, some say without waking; but those that have kept them say they wake sometimes. There also a Spider-moufe that is so nimble and light, it can walke on thred, and not bent it, or on a sword edge, without taking harme. Others say it is venomous, and hath the name from a filth, called *Aranæus*, or a Spider, it is much lesse then a Weefel, inclining to ash-colour, teeth small, the tail short, and slender, the muzzle long and sharp. The eyes so small for such a body, that Pliny thought it pureblind, and others call it the blind moufe. It is dusk, and yellow, the belly white, Swine-snouted, thick of hair, the tail twice as little, as of other mice. In either jaw are two foreteeth sticking out. Between the cheek teeth is no hollow place, but they are all as one bone; in one part are three knags so small, that you cannot see them. There are four other cheek teeth unequal, and knaged, in all twenty teeth. They are not beyond the Appenine hill, but everywhere in Italy, especially about Trent, also in Germany. They

winter in stables, in summer they haunt gardens; and in Cow-dunghills, feeding on roots, especially eatable thistles, to the Husbandmans great damage, also on carrion. Those by Trent are not venomous. They hate the track of wheels. Their squeake is shriller then of other mice, but by reason of its dinne fight, it is sluggish. Their bite is venomous, for a Cat will catch, but not eat them. Their bite is worse that are great with young to any other creature that is so. The Alpine Moufe lives in the Alps, is called also Marmota, and bears moufe, it being shaped like both. Albertrefers the Empeetra to these, a beast now unknown headed like a Hare, as big as a Cony, the ears so small, scarce seen above the hair, like a badger long, and party-coloured haired, short-tailed, sharp nayled, and dig deep. In winter it grows monstrous fat. The foreteeth like the Hares, and if cut off, will grow again in one night. Their stones ly high. The blind dog is large, like a stomach, rough within and net-like, there in a large womb. The liver hath seven lappets distinct, the greatest towards the left side. The gall-bag is the fold to the duodenum, the spleen long like a large Swallows. The water-veffels, or Uterines not coming frait down from the reins, but cleaving to the back, and finall. Most of them about Trent, and in the snowy cold parts of Germany. They feed on fruit, especially milke, that they suck as pigs, therefore haunt they sheep-cotes. Being tamed they eat pulse, bread, fish, &c. About Christmaffe dig, you find them asleep in the ground, nothing wakes them, but the heat of the sun, or fire. A little thing frights them, vex them, they squeak like a pipe, or against change of weather. They itink so, that in summer they are not to be endured; nor want they wit. Toward winter they convey hay, and chaff into their holes. They lay one flat, and load him with hay, and drag him by the tale into their hole, which hath two entrances; through the one they all passe too, and fro, out of the other they carry their dung. When winter begins they stop up the doore, and in the depth of winter they stop up the other so fast, that a spade cannot pearce it. About the end of September they meet seven, or more in one hole, commonly the number is odd, and there on straw they ly snorting till spring. One still stands centiuelle, while the rest go abroad; if he spy any thing, he squeaks aloud, and warns the rest, whereupon they all come running, and he enters last. In fair weather they play together, and murmur, and bark like little dogs. When tame they will looke your head, like an Ape. About approach of winter they come, and eat with those who live on the Alps. They roast and boyl them in black portage, and sprinkle them with salt, and hang them in the smoake, and give them to women in child-bed. The fat softens shrivelled sinews, and smeared on the navell provokes sleep. The stomach eases the collick.

Aristotle in his book of wonders, mentions

the water-Moufe. He hath three passages, one for his fish, one for his water, one for bearing young. Near the bignes of the Mole, of a dusk-colour, all but the belly, which is bright ash-colour; it is thick, and soft-haired, the head small for such a body; the upper-part of the moufe hangs over; in each jaw two teeth, in the lower, lesser, and blunt. Their eyes are hardly seene; the sides of the mouth are of a long ash-coloured ihagge; the tayl thin of hair, and a bony finew in the midft; the hinder-legs are longest, and flat, and skind as Ducks. They are common in Strymon, and Nile; they go abroad in faire nights. There are of them in smaller rivers, and in Lusæ an Arcadian-Spring. They feed on water-plants, fruit, and fish. The Magi that followed Zoroastres, thought these Mice divells, or Tortoyfes. In some parts of France they eate them. There is also the *Coyopilla*, it uses the tayl for hands; the young, when frighted, embraces the dame. It resembles the *Tlacuatzin* in tayl, eares, and musles. The tayl is thicker, and stronger then the Moufes, the belly palish white, the ears so thin, you may see through them; the feet and thighs white. They are found in the Teopalan-hills. The Crocodile also uses the tail as hands, therewith catching beasts, and men as a prey.

CHAPTER XVIII.

Of the Mole.

THE name *Talpa*, the Latines have put on it, either from *Thapto*, to digge, or *Tophlos*, blind; or *Thalpa*, nourishing it self under ground; or from the Chaldee *Talaf*, to cleave the earth. The Greeks call it *Spalax*, from *Span*, scraping. Some *Siphuncus*, from hollowing the earth; and *Blaeta*. It is not unlike a Moufe; the body broad, and flat, feet like a Bears; short-thighed, toad-headed; having on the forefeet five toes, on the hinder foure, the fifth crooks fo inward, it is hardly seene. The *palm* of the forefeet is flat like a hand, the *neck* very short, or almost none, hair short and thick, and glistering black; the teeth, as the Dogges, and Welses, are all on the sides, none afore, and sticking up; the *lungs*, tied with many severall strings to the heart; the fore-thighs consist of two bones, set into the shoulder-bone, whence he is stronger to digge: his hinder-thighs have a bone, that a lile below the knee-parts in two: All the bowells are as in other beasts; Onely 1. they have no colon, no blind-gut. 2. The stones hid, on the bladder-side, and black. 3. The reins joynted to the next hollow vein. 4. The gall great for such a body with faire Cholichochs. 5. The porter of the stomach, is as tied by a thwart line. 6. The water-conveying-veffels, propt with uriteres. 7. The Larinx, as in a Land tortoyse, for it is a mute beast. 8. The hammer, and anvil within the inner-eare are strangely small; the bone in the midft

midft like a pumice-stone full of pores. 9. Three passages are in the nether jaw. 10. The eyes stand in the right place all black, covered with a skin, small as a fleawort-seed; I could perceive no optick sinews, nor know I whether they can see, or no, not onely, because their eyes have a film over them, but they want many things, conducing to sight. They seeme rather natures sportive essays, to shew what they can doe, then eyes. In a Mole found 1617, were observed a fleshy filme, strangely set into the skinnie; the brain great, distinct, and faire; the eares lying inward, hide the bones extreme small, the bowels small as strings. In Theffaly they with heaving, have overturned a whole Town. In Lebaica are none; if you bring any thither, they heave not, perhaps because it is a hard soile. They feed most on worms, and therefore haunt dunghills; and worms failing, they eat earth. They have been seene also to make at roots of hearbs, and fruits, and toads. They are commonly bred in ground, rotted by rain, long lying. Albert saith, they cannot live an houre above ground, but he is mistaken. They have but dim sight, but are very quick of hearing. They are of use in Phisick; a *Tooth* pluckt out of a live one, is thought to ease the tooth-ach. Pills of them with hony, wear away swellings. The *head* cut, and stamped with earth of his heaving, made up into balls, and kept in a tunc box, is given against all neck-griets, the *blow* brings hair, and helps blons: the *fat* keeps hair from growing, as also batfat. The alius cures fistulae. Some lay a Mole-heart, and Saladne, under a sick mans pillow, to know if hee shall dy, or no, conceiving that he shall recover, if he sing, or cry out; if he weep, he shall not last long.

The water wherein a Mole hath been, and left hair, restores hair. Of the skins are caps made.

CHAPTER XIX.

Of the Land-Hedge-hog, or Urchin.

Called Echinus, because we cannot hold him for his prickles. In Greek *Akanthochoir*, a prickled-hog. Lycophon calls him *Naplium* from his surpassing cunning. Some *Herinaceus*, and not improperly from his roughnesse, or cleaving. It is as big as a rabbit, full of prickles, except the mouth, and feet below, where grows a thin down. It is observed in him, that the muscles are knit together over all his body. The bowells all of a thicknesse, and very long, like the Moufes. The dung, and testicles all of a biggnesse, the rise of the yard long, the seed like yellow snuivell, the liver sevenpointed. In the yard are whitish bits of flesh, craggy like a rock, and resembling somewhat the lung-strings. The testicles ly hid, and are fastned to the loyns. The bones are some round, some flat, some sharp, some blunt. They are found

everywhere, except in Candy. Aristotle writes that they can last a year without food. They live most on apples, and grapes, which they shake off, and stick on their prickles, and carry to their hole. They have been also observed to drinke milke, and wine in houfes; they hold enmity with the Beare, Wolfe, Fox, the viper, and the herb water-graffe. When he hears the barking of dogs, or smells the approach of wild beasts, or hunters, he forthwith rous himself up like a ball, and lies, as if he were starke dead. He shifts his layer, as the North, and Southwind change, and from wall to wall, if you keep him in house, accordingly as the wind fits. When you take him he pisses, and that wet slackens, and opens his prickles. They meet, and ingender, as mankind doth. Some eat them, but they breed the frangury, unless they be carefully dressed, that is killed at one blow, as some are of opinion, and walked in whole vessells of urine. In August they are fatest, when they get plenty of food. Some spice, and bake them in crust. Gesner warned them in vinegar, and wine, and larded them, and stuck them with cloves, and roasted them. They are very usefull in Phisick, the liver helps the reins, the gall dries up warts, the spleen roasted, and pulverized is good for the spleen; the flesh prevents miscarrying, and if killed at a blow, the strangullion, if you hang it about you conveniently; dried it helps rumples in the skin. The Polonians use the fat to that end, it is also good for the stone; the blood is not usefull for the stone, the reins, and the scorching of the urine; the alius with Bears-grease flecks the hair; many use the fame with oyle fat to prevent miscarrying; it is used also in the pain of the reins, and against the water between the skin; the dung newly voided with the herb *Sandaracha*, vinegar, and tarre hinders shedding of hair: with the hide and prickles men used of old to fetch spots out of cloaths. They are distinguished into the swine, and the dog urchine from their shape. A vile stinke vapours from them. In Brasil is such a beast resembling the hedge-hog with very long bristles, pale haired, black at the tops, and very tharp, and prickly. Nature hath layed up a wonder in them, one prickle pluckt from them alive, but layed on any thing, especially flesh, peacheth it, and in one night it hath been known to pearce through a very thick hide, as if hands hath pricked it in.

CHAPTER XX.

Of the Porcupine.

SOME reckon this among the Hedge-hogs, as Pliny, &c. The Greeks call it *Thrix*, from *Tr*, and *Thrix* no doubt, some think it to be the African moufe in Plautus. Isidore writes it without an aspiration, and derives it from the noise he makes, and rustling in shaking his bristles. Claudian describes him to belong nowed, like a Hog.

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his bristles like horns stiff, his eyes fiery red; under his rough back are seen the prints of a small whelp. But Agricola makes him to be Hare-mouthed, with four teeth, two above, two beneath, eared like a man, footed afore like a Badger, behind like a Beare; his bristles, or prickles on his back, and sides partly white, partly black, sometimes two palmes long, which he can make to start up as a Pea-cock his traine. They are common in Ethiopia, and are in all Africa, and India to be found; in Italy, and France now, and then, but seldome, also in Galicia, as the pilgrims of Compostella testify, who wear their prickly quills in their caps. They lurke in groves among the bushes. They live on apples, turneps, pears, parsnips and crumbled bread, they drinke water, but if mixt with wine, most greedily. They can dart their quills at their enemy, and aime them like arrows; whence, it may be, the Archers art came. By night, they feed most, in winter they lurk in their holes. They carry their young as many dayes as the Beare.

Gluttony hath not spared it neither, some have eaten it, and they cry it up for a dainty, you may see how to dresse it in Ambrosine out of Scapius. In Phisick it seems to conduce to the same maladies as the Hedge-hog doth. Pliny made tooth-picks of the prickles to fasten the teeth. And women use them for bodkins to part their hair. There is small difference between them. Some distinguish them into sea, and land Porcupines; but too confidently, no good Author mentions the sea one. Such a kind of beast Cardan saw at Papia fifteen hundred and fifty, as big as a Fox, mouthed like a Hare; the teeth sticking like the squirrels, the eyes black, and serpent-like; the hair like a Goats beard, hanging in the neck, the forehead like the Badgers, the hinder like the Bears, eared like a man, beset with almost an hundred pricklequills, some crooked at top, else fast, but rustling as he went, Goos-tailed, the feathers spiny, the voyce grumbling like a dogs, he hated all dogs, probably it was some mungrill sprung from the Porcupine, and some other beast.

CHAPTER XXI.

Of the Tatus, or the Brasil Hedge-hog.

Nierem. Hist. exot. l. 9. c. 6.

Gelin. Maphaus.

Here is a kind of an armed beast, called a Tate; by the Spaniards Armadillo; by the Portuguese Senebertado; by the Italians Barbato; by the Brasilians Tatau, by some Tatufia, and Tatus; in new Spain Chirquinus, and Cassamin elsewhere, by other Indians Ajatochilli, or a Gourd-cony, for he as they lives in burrows. He can dig in one night fifty paces; if he be noticed, no place can hold him, he mines through all in houses, and towns, and gets away. There are sundry kinds of these armed beasts, but the

Ajatochilus seems to me the strangest, rarely written, or found. He is armed with hard plates, as I myself have seene; As big as a Malta dog, the feet small as a swines, the snout long, and slender. He is all over armed as with male, or armour like a Cavalier, plated, the plates joynted close, distinct, which he can move, and every way fence himself with. His belly is bright and soft-shined as ours, having here, and there long slender hairs. He hunts after Ants, lies on his back, with his tail on his mouth, so that the pis-mires coming on fall frait as a prey into his power, which he eats. It is said also that he fills with his own water the hollow on his belly between the plates, and so the ants, the moysture lying in their way, come directly into his mouth: when he flies, in all haste he claps his head, and tail on his belly, and fences himself with his shell, rolling up himself round. If he be chafed hard, he flies at the hunters breast, and oft strikes almost the breath out of his body. He haunts marshes. Feeds on worms, fish, berries, and apples. The flesh is very fat, and sweet, but flegmatick, and breeds crudities. The ancients used the tail to fence those they called their Zebratanae, which were of frequent use among them. Their shell is many wayes usefull both in warre, and peace. They say that a dram of the powder thereof taken in, helps to sweat out the French pox. He is found in hot boggy places.

There are among the Lucatanenses two sorts of them, some are as harmlesse, and acceptable nourishment, others unwholesome, and poysonous, provoking to vomite, and filling the belly so with wind, that they bring swoonding fits, and at length kill. The Antidote is oyl of olives, unless the venom have too farre prevailed, then there is no remedy. If happily any recover, their hair falls off, the colour fades, and they pine away by degrees. Those that beare eight shells or plates, are harmlesse; those with six venomous. The harmles also want a hip-bone, and have red spots about the belly: this beast is beloved of the Vipers, that have a voyce, that they can live together in the same hole, and never injure each other.

The former kinde is armed round to admiration, other gates then those in Spain, or elsewhere in Europa. He is fourfooted, covered all over, tail and all with a hide like the slough of a Serpent, called the American-Crocodile, betwixt white, and ash-colour, but inclining more to white, like a Barbed war-horse, as big as an ordinary Dog, harmles, burrowing himself in the earth, like the Conies; they are taken in nets, and with Cros-bows, killed commonly in seed-time, when the stubble is burnt, or the ground tilled, or husbanded, to bring grasse. Confalvus writes, that he had often eat of them; and that it is better tasted then kid, and found wholesome. He thinks that men might hence learne to Arme-horses, completely capable. Others are otherwise opinioned about them. Some say, he was never seen to eat,

Antou. Hartera.

Confalv. Crustaceon. Dyacalis.

Monatiles.

eat, but lives ever under, and on earth. Others say, some few have been brought into France, and been seen to eat feeds, and fruits. I refuse neither; they may speake of diverse kinds. Plateau, and Clusius acknowledged three sorts of them. One short-tayled, one foot, and foure inches long, and fourteen inches about; covered with a dusky hard crust, so grown happily by age, and oft handling, after a manner chequered; from the neck to the miditt roundish, the shells partly-coloured, the middle of the body set with three rows of diverse colours, square plates; the hinder-parts as the first; the head so plated to the nose; the eares wide, and pointed; the tayl short, not greater then a mans two fingers ends, round, and armed; the belly soft, and shaggy, as the picture presented it; as also the hinder-part of the thighs, and the throat, and nostrills; three toes on the hinder-feet, and spur d, two on the forefeet, and a spur, the yard long, and stretched out. His chief strength lies in the tail-bone, a pill whereof made of the dust, as bigge as a birds-head, and put into the eare, asswages eare-paine, and takes away tingling, and thickness of hearing, as it is said; but it is known to give certain ease. I adde the craft of the Chirquinus, they that have seene it and report, that when it raines, he lies on his back, gathers water on his soft belly, that lies between the plates, and remains so, while the shewre lasts, though it rain the whole day, till some Deere thirsty, comes unawares to drinke, then he closes his plates, and snaps the Deers slips, and nose; and let not go the hold, till he stille him. And, as the Hedge-hogge also, he craftily rolls up himself round, like a ball, and nothing but fire can loosen him. The Indians abuse the shells to their witchcrafts, especially to discover, and punish thieves; first touching the ground therewith, that the suspected person had toucht, or any thing else; they fill his mouth with the drinke Chicha: then beat they drums; the shells the while skip, and daunce. Hereby is the thieves face marked with a welk, that runs along his cheeks through either jaw; if the charm hold.

ARTICLE III.

Of some four-footed Beasts.

CHAPTER I.

Of the Dog.

Ambros. Dig. vii. l. 3. c. 1. The Name. Canis, canis.

Linn. Syst. Nat. l. 1. c. 1. Canis, canis.

So much for the half wilde Beasts; the tame follow, namely the Dog, and the Cat. Varro fetches the Dogs name Canis, from Canorus, thrills in his bark. The Greekes of old called him *Kyon*, from *Kyon* doubles, to love, or lust. Of late *Ekylos*, from his masterfulness, *Ulahtoor*, from barking, and *Akanthos*, from fawning with his tayl; not to insist on the description of so known a beast.

In dissection it is noted, that the belly within forked the neck in shortnes, and narrownes, answering the middle-finger, the corners are an handbreath, a palme long, of like thickness, not wreathed like a Swines; the forkends reach to the reins, tied by veins, that come as far as the womb, the testicles resting thereon by a thin skin. At the first opening of the neck, the body shews it self in bulk, shape, and colour, like a Snails-head thrust forth out of the shell; you cannot thrust a bodkin in, till you cut it up a little. Dissect a bitch, you find the puppies wrapt up in three beds called *chorion*, *allantoides*, and *amion*; the former can scarce be parted, and they are so thin. In the right corner usually five whelps, in the left foure; each hath its bed, the chorion in the midst, girdles ly thwart two fingers broad, streaked with black from the end, and red in the middle; each as blood-spotted. The *kell* like a bag, covering the upper-guts; the top sprouting out of the stomach bottom, compassing the whole, the hinder-part is set into the Spleen, and the sweetbreads; which latter flow themselves presently at the rise of the *duodenum*, being fastned thereto, and to the *porturine*, which sends a trebble-branch to the neighbouring-parts, Meseraick, Spleen-guts, the Paunch-branch runs beyond part of the stomach; the Spleen-branch runs up frait to the mouth of the stomach. The Spleen is tied to the mid-ris by a film two fingers broad, and to the stomach by the kall; the Spleen is like a foot with a wide shoos on. Colon-gut it hath none; the blind-gut receives the end of the frait one, which unfolded is as long as your middle-finger. At the end of the freight-gut within, is one faire lappet, and another lesse in the beginning of the blind-gut. The freight-gut is much rumpled. There is a fold of arteries from the *aorta* wound, to the hollow of the liver, approaching the *pancreas*; pluck one, you draw the other, and the upper-bowels. Above the upper-mouth of the stomach are two kernels, both Spungy-moist, the right harder, and greater then the left. Dogs blood is black, as burnt. At the tip of the Tongue, is set in a round muscle, descending in a middle-line. The right lappet of the *heart*, is twice as big as the left. On the parts of the *pan*, that the temple-muscles cover, appears no thin skin, to enwrap them, besides what is proper to the muscles; but on the other parts of the brain-pan there is. At the tongue-root is a small kernell on either side, drawne out sideling. The ringlets of the sharp artery lie thwart, but not awry as in the Swine. The brain is greater then a Swines. Turn the brain up, and certain mamillary-passages shew themselves, and the beginning of the shew-bone, if you cut deep, there you shall spy two small passages, one coming from the paps in a frait line, reaching to the end of the inner-brain; the other a little on this side, lying upward thwart of that. On the fore-feet are five toes, on the hinder foure. The Bitches-belly hath

Scidus Describ. Sever. Zoonoc. P. 305.

two rows of paps on either side. Albert faith, that the nostrils of a Dog of a good breed, are at the ends, round, firme, and blunt. The temple muscles, are noted to be very strong, as in the Wolf, and the Lion, which enables his jaws to break bones. There were no Dogs in Brasil, till Vilagagnon's voyage. If any come by hap into the Arabian Island Sigaron, they wander, and die. They eat any thing, even fish, and carrion. Onely they refrain dogs-flesh, and what is thunder-strooke. They eat grasse also, and it is their Physick. From Ash-apples they abstain, because the turning-joints of their hips are thereby pained. Drinking wine, or strong water, makes them run wild, till the vapour be spent. They are ever given to gendring, seldomest in Autumne. They hold on to fill twelve years old; sometimes give over at nine. If they begin at foure, the breed is better; if at a year old, not. They are foure-teen dayes hote; and the Bitch six months after pupping, go to Dog again. They couple also promiscuously with other beasts; as with Wolves by Cyrene, whence spring, Crocutæ, with Lions, whence Leontomiges come; with Beavers whence Castorides; with Foxes, whence Fox-dogs. They carry their puppies sixty dayes, some three-and-sixty. They bring a litter of twelve, sometimes sixteen. A Harhound in Bononia, pupped seventeen at once. Albertus saw Mastives, that brought in the first litter nineteen, at another eighteen, at a third thirteen. Those that women dandle, puppy one at once. First they breed males, next females; then males again, if they couple in due time. The first resembles the fire; the rest are, as it happens. They are all pupped-blind, and the more they suck, the longer they remain fo, yet none longer than one-and-twenty dayes; nor do any see till seven dayes old some say, if but one be pupped, at nine dayes old he sees; if two, the tenth day, and so on, but it is not certain. They have milke commonly five dayes ere they litter, some sooner. Their milke is thicker than other beasts, except the Sows, and Hares. They seldom live above foureteen yeares, some have lasted two-and-twenty. The Dogs of Laconia ten, the bitches twelve, other kinds fifteen. The whelps have white teeth, and a thrill bark; the elder, their teeth blunter saffran-coloured, the bark greater. Which voyce we call barking, in Latine *latrare*, and *banbare*. In Grecke Whelps, are said, *Banzein*, older *Yakkein*, to yelp, &c. when they drink they lap; when they quarrell, or fawne, they grumble. We say, a salt-bitch hot, go to dog, in hunting they open, (*Prokuein*) provoked, they snarl, (*Arazkein*). They dread the Hyæna, that the very shadow strikes them dumb. In Nilus they give but a lap, and away, for feare of the Crocodile. A Wolf they hate. Porta faith, a Wolfs-skinne hanged on one, bitten with a mad dogge, removes fear of water. They dread the Buzzard for her flow, and low flying. Blondus his dog would not come neare Hens-flesh. Some re-

fuse the bones of wilde-fowles. Of old they would not enter Hercules his temple, either by reason of his club; or they feasted something buried under the threshold that they hated. Some complain lamentably if you strike a Harp; some howl, if they hear a Trumpet. The report of a Gun, makes them run. Well they agree with mankind, we shall see anon. They are foon vexed, and will fight long about a bone. They are watchfull house-keepers; they are foon waked. They drive them in Nature. Sparta from their temples, for their lust after women. They are skillfull in fencing, and by smelling behind, distinguishing of the disposition of bodies. They are ever hunting with their nose near the ground, and so foon infected. Quick of hearing they are. At foure months old they shed teeth, and hayr. If crop-fick, they devour grasse. They foon cast puppy, if the dog be killed, they coupled with. They are very cunning, and have a good memory. Wit. They forget not a way once gone. Man onely exceeds them in remembering. One in Venice knew his master after three yeares. Ulisses his dog after twenty yeares absence. On Vespasians Theater was shewn a dog, that was taught all kinds of daunces, and fained himself sick, and dead; suffered himself to be dragged about by the tayl, then started up as out of a deepe sleep. Francis Marquesse of Mantua, becoming dumb in a facknesse, taught a Dog by signes, to call any courtier to him. Another in the presence of Justinian the Emperor, and the people having rings from the spectators, which his master jumbled together, returned each his own ring. Being asked which of the company was poore, or rich, a whore, or a widow, he shewed each, taking their cloaths in his mouth. They are very faithfull to their masters. We have heard of one that fought with thieves for his master, and would not leave his dead body, but drive birds, and beasts of prey from the carcase. Of another in Epire, that discovered one that killed his master, and never left rending and barking, till he confest the deed. Two hundred dogs rescued the Garamant King from banishment, withstanding all resistance. Those of Colophon, and the Castabales, made use of squadrons of Dogs in warre; they set them in the front; neither would they give ground; they were the most faithfull forces they had, and asked no pay. When the Cimbrians were slain, their Dogs defended their houses, lying on Carts.

Jason the Lycian his dog would not eat when his master was slain, but starved himself to death. Another called Hircanus, leaped into King Lyfimachus his funeral flame, the like is said of King Hierons dog. Pyrrhus King Gelons dog also is famous, and that of Nicomedes the Bithinian King, his Queen Coninga being torn wantonizing with her husband. With you a dog defended Volcatus a Gentleman,

OF THE FOURFOOTED BEASTS.

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Gentleman, a Civilian, from a rouge who afflicted him returning out of the suburbs homeward. And Cælius also a Senator of Placentia, who was sickly, and opprest with armed men, nor was he slain, till his dog was first killed. But above all that surpasses any instance in our age, that the Roman Chronicle testifies, that when Appius Junius, and Publius Silius were consuls, T. Sabinus, who was condemned for Nero Germanicus sons sake, to be cast down the Gemonies, had a dog that hould piecefully for his master there, many Romans standing about, and being offered meat, he put it to his dead Lords mouth, and the carcase being cast into Tiber, the dog swam to it, and endeavoured to keep it from sinking, all the people ran to behold the dumb beasts faithfullnesse. Another discovered and killed the murderer of his master. That of Corsica, that would not suffer the nearest friends to take away his masters body frozen to death, till they killed him. I mention not yet those that would be burnt, or buried with their masters, as that of Polus the Tragedian, that of Pyrrhus, and Theodorus his dog. Eupolis the Poets dog would never eat after his masters death, nor Jason the Lycian, Darius the last Persian Monarch had no companion at his death but his dog. Xantippus his dog swam after him, and was drowned. Few, or civilized people will eat dogs flesh, unless nee compell them. Yet those of Senega eat them, and those of Guinee. Some nations gould and eat them. But in medicine they are of speciall use. The brain-pan powder takes down the swelling of the cods; a playster of the brain sets bones, the greatest tooth if you carrie the jaw-bone, eases tooth-ache; some hang a black dogs longest tooth on those that have a quartan ague; the dogtooth of a mad dog hung in raw leather allays frenzy; the congeal stufte dissolved in wine eases collicke, & in vinegar is taken in against droply; Sextus layes it on their belly, and by vomit draws out the hydropique humour; the liver of a mad-dog roasted is soverain against madnesse; the gall with hony cures inward ulcers. Marcellus applies the milke when fresh to the spleen; the blood helps parts hurt by a mad dog, the fat eases the gout; a Puppies fat removes skars, and face freckles; the milke is good for sore eyes, and to rub infants gums with all; and drunk, brings away a dead child. The pissle fetches off hair, and warts, and mixt with salpeter cleanses leprosy. The powder of their dung is excellent against squincies, ey-fentery, and old sores, if the dog be kept up, and fed three dayes with bones. Marcellus prepares it dried in the Sun and sifted, with red wax, by bits, and a little oyl for the sciatica. Pliny thinks, that the bones found in their dung tied on helps the Siriafis in children. The skin helps rheums, if drawn on the fingers, and thongs of it tied thrice about the neck helps the squincy. The hair laid on the bite of a mad dog draws out the venom, and stanches blood. Some cure a quartan, or remove it by making a cake of meal kneaded

with the water the sick person makes in one fit, at once, and giving it to a hungry dog. See the rest in Gesner. Some take two puppies newly pupped, and four pound of oyl of violets, and a pound of earthwormes prepared, and make an ointment for wounds made by gunshot. Andrew Furnerius cries up the distilled water out of whelps to prevent growing of hair. Dogs differ in many respects. Horned ones are said to be found in the Hellespont. In Hispania are some that bark not. In Guinee some strive to bark, and cannot. Some (in regard of their qualities) are Wind-hounds, some courfers, running-dogs, some tumblers, some house, some gate-dogs, some hunting, some setting dogs, some blood-hounds, some floks. If we regard place, there English, Scotch, Epire, Cyrenaick, Arcadian, Indian, &c. dogs. We shall in order treat of the severall sorts, and first of mad dogs, which become such by eating rotten, and worm-eaten meats, and flesh, chiefly in the dog-daies. Then they hate to eat, and drink dread water, come up and down, bark hoarsly, some extremely at mouth, and ears, looke fearfully, their tail hangs down, they bite men without barking. Many used manifold remedies, as white hellebore with barley boyled to make them spew; Hen-dung mixt with their meat, bleeding them after the third day in the swelling veins on the thighs, casting them in a pond where many hors-leeches are to suck their bad blood away, anointing them over with oyl of poplar, washing them in a decoction of fumitory, forell, and Elicampare root. To prevent it some prescribe giving them while puppies breast-milk of one hath lien in of a fow; some cut off whelps tails, when forty dayes old. Some pinch it off with their fingers the utmost joynct of the tail. There are Malta dogs, bred in that Isle over against Pachynus a promontory of Sicily; some of them short, some long haired, with shaghecks. Blondus prayes the black, and white ones, now the red, and white are cried up. As big as a wild weasle. They keep and feed them in baskets to keep them little. They are dainty of food. If they whelp more then once, they dy on a sudden. That they may be whelped shaggy, they strew the place where they ly with wooley fleeces, that the bitches may have them ever in ey. At Lions in France they are sold for ten pieces. In Bononia for four hundred pound. They are womens delights.

Hunting-dogs, or Hounds are almost everywhere. Those are best that are bred in Hircania, between a Bitch, and a Tiger, and those of Epire, and the region of the Molossi, and Chaonia. The Persian are froutest, and fleetest; The biggest are in Thebeth. Those in the Province Gigue, are so bold, they dare venture to fasten on a Lion. The writers of Husbundry shew how to breed such. Alphonsus King of Naples prized them, and the great Cham of Tartary keeps five thousand of them. They are diversly distinguished. In relation to the sundry wild that they hunt, or chase; there are Har-

Wecter.
Antidot.Diffi-
cutes.
Oval.
Ciculus.Ambr.
i. 3. c. 2.
Ossid.
Dign.

Æcius.

Myfialis.
Blondus.Plin.
Colum.Ambr.
ib. c. 3.Ambr.
ib. c. 4.Megasthe-
nes.Mizaldis.
Centur. 6.

Hare-hounds, and little Badger-dogs; some good at a fowl, that hunt them softly into the nets; there are Water-spaniels; others are to bait great beasts, (as Bull and Bear-dogs.) In respect to places, there are those called *Arcadian, Aulonian, Carian, Thracian, Iberian, Hungarian, Argive, Lacedaemonian, Tegeatians, Saurmatan, Candian, Celtan, Magnetian, Amorgan*, Hounds. If you regard their colours, there are ash-coloured, hony-colour'd, yellow, white, black. The white are somewhat afraid of the water, and will not willingly take water. Those with black spots are thick, and tender-footed. The ash-coloured, or russet, are strong set, and bold, but slow-footed. The black are stout, but not so fleet as the white, being lowthighed. Men choose a Hound by his eager look, great head, hanging upper-lip, red-eyes, wide nostrils, sharp teeth, thick neck, broad breast, lion liked.

Id. Ib.
l. 3. c. 5.

That is the best *Hare-hound*, that is long, and plain-headed, sharp-eared, behind straight, and little; the upper-lips not hanging over the lower, long and thick necked, copped breast, strait guts, high, and lean thighs, tail not thick, nor too long, not always yelping. Some of them go out a hunting of themselves, and bring Hares home; they call them *Tumblers*. There are as many sorts of wind, or fented, as of hounds. In Scotland are three kinds; some bold, and very fleet. Some will catch fish. Some red, and black-spotted, or black and red-spotted, are lime-hounds, that will hunt out thieves and stolen goods, and take rivers to chase them. The English, and Scotch, usually breed such blood-hounds up, and count him a thief, who is shy of letting them, have access where ever they would hunt, though into their bed-chamber. Such a lime-hound must be low, flat-nosed, neat-mouthed, the hind-thighs of one length, not big-bellied, plain-backed to the tail, dangling ears, quick eyes. The British, Spanish, Gnosian, and Telcan excell. There is the *Village*, and *Shepherds* Dog. The white Dog is approved, being better distinguished from the Wolf. Among the Turks no one master owns them, nor come they into house; they lay in yards on mats. Of old the Romans kept five hundred of them, to keep their fables. We read little about the Warredogs, and the useless Cures. England breeds some that thieves, murderers, and traitors breed up for their cursed purpose, and some that thirst after royall blood this very year. Such the Spaniards in battell against the Indians, which they feed with mans flesh, to train them to hunt men. Vazquez Nunnez used them in stead of hangmen. The Indian Dogs in America, are a new breed, yet almost like ours in nature, qualities & shape. The *Xelotzevinity* is great, most what above three cubits, without hair, sleek-skinned, with yellow, and blew spots. Another sort they call from the country *Ixcvintepozotli, michva canem*; like those of Malta, white, black, and yellow, a little misshapen, yet sportive, pleasing, fawning,

Blondus.

Bellon.
collet. l. 3.
c. 4.Nierem.
H. E. l. 9.
c. 36.

with an ugly bunch, sticking out from the head and shoulders, having almost no neck. A third kind is the *Tetich*, not unlike ours, but with a curly look. The Indians eat him, as the Thracians of old. Diocles the Physitian, Sexmus, of the Asclepiad Schole, prescribed Puppies, flesh to some Patients. But the *Cozumelle* are a dainty with the Indians, they fatten them as the Spaniards Conies, and geld them, to fatten the sooner: and keepe many bitches to breed, as shepherds with us, for want of children they foster these, and are found of them. The *Alco* is a little Dog, they are much taken with, they pinch themselves to feed them; travell with them on their shoulders, or in their lap; never are without them. They have also dogs like Foxes, that never bark; bred in the Ille *Cozumella*. If you strike them, they will not complain, nor cry. These are called in Hispania, Calamitan frogs, spawned like Vermine by nature; no need of an after-birth dogs thin skin, nor Hares-dung, nor hair. Pliny superstitiously seeks after them, to strike dogs-dumb. In Hispaniola are little dogs, that grumble onely, and bark not, they taste well. In Quivira, they lay packs on their greatest Dogs.

CHAPTER II.

Of the Cat.

THE Cats Latine name is *Felis*, comes from *Phalos*, cozener-deceitfull impostor; or *Avis*, flatterer; in the *Aethiack dialect*, *Phalis*, called *catus*, Cat. Namer. from *catus*, wary. In Greeke *Ailouros*, from flatterer with the tayl. A known beast found almost everywhere. At first probably wilde. The greatest, all say, are bred in Iberia, among the Tartessians; they feed on flesh, fish, Mice, birds, snakes, and kill toads. In Cyprus they hunt Vipers, and Chameleons. They ly in wait also for levers, and spare not their owne kind. In Bononia they are known to play with kidlings, and then rend, and eat them. They live six years, sometimes ten; the gelded longer.

In Europa they go a caterwalling most what in January, and February. In India all the year long. The females in gendring ever wawl, whether for pain, or that the Hee scratches them. He stands, lies. The shees are most lustfull. They kitten after two months or six and fifty dayes. The march breed is preferred; those in August not, for the fleas. They kitten five, or six at once. The Shee is fondest of the kidlings; the Hee oft kills them to make the Shee covet others, and affect him. They hate mice, toads, serpents, Fox-geese, eagles, rew, their own gall, sweet smells, and wet. With rew you may drive them from your Dove-cotes, fents of ointments sometimes make them run mad. Duck them a while, and you drown them. On the contrary, they willing rub themselves with fetwol, and delight in mist. The Shee

Ambro.
l. 1. c. 43.
Salm.
in Salinus.
Cat. Namer.Place.
Focul.Sal.
H. E. l. 9.
c. 37.Plin. l. 1.
c. 63.
Gendring.
Arist.M. P.
Vetus.
l. c. 62.Symphy.
thy.
Anap.
thy.Antony.
M. Aurel.
Prer.

Shee casts her kidlins, if her male mate be killed. We meet with singular passages about their qualities. Cats eyes wax, and wain with the moon; nay the fun, and stars, breed changes in their ey-balles. In the morning they are stretched out, at noon are they round, at sunset, duller. Cardan imputes it to want of muscles, that they cannot govern their eyes as they list. They glister by night. Carry them in a bag far from home, they come back again. They stay in the old house, though you remove. They love to be stroaked; subtle they are: How slyly they steal upon birds. How softly they tread, and catch mice; how they watch them. They bury their own dung, knowing that the sent discovers them, some, especially in Spain, Holland, Brabant, eat them, as tasting like Hare. Their breath is pestilent, and breeds consumptions, and no marvel, for the brains are ranke poyson, and made an Uratilsavian Girl mad, as Weinrichius (I thinke) relates. In Phliph they have place. The ashes of the head burnt in a pot, and blown into the eyes, clears them; the flesh sucks weapons out of the body, and eases emroids, and back-aches; the liver burnt to powder eases the stone, the gall fetches away a dead child, the fat is smeared on gouty parts; the piss stiled helps the thick of hearing, the dregs of the paunch with rosin, and oyl of roses in a suppository, stops womans flux of blood. Some mince the flesh, and stuff a fat Goose with it, and salt, and roast it by a soft fire, and distill it, and annoint gouty joints with successe. The fat keeps iron from rusting, nothing better.

There are tame, and wild, and outlandish cats. Among the tame, the Spaniards greediest, nimblest, and have softest skins. Among the exotiques, or outlandish the Syrian are cheefe, and divers, round mouthed, strong big-breasted, large footed, and content with a little meat. The wild are bigger then the tame, their hair thicker, and longer, dark-coloured, the tail thicker. They feed on birds, and other living things. Perfume of rew drives them from trees. In Malabar they live on trees, nothing so fleet as they. They are belt at leaping, and even fly without wings. They stretch forth a thin skin from afore to behind, when they would fly, and then draw it together, and hover in the air; when they rest, they draw it up to their belly. There is also a kind of cat in India, black-haired, here, and there bright hairs, the muzzle long, ears small, thighs short, the tail freack, and striped with black and white. The powder helps feavers. Then there are monstrous cats, one sort hath misshapen, another six feet. In Singui is a beast like a Cat, haired like a Deer, with many toes, two teeth in either chap, of the greatnesse of two fingers, having a fleshy bladder near the navell, full of blood, senting like musk. We have put the print of it down, like a Cat, very coped-headed.

In dissecting a Cat are found these observables. The mit resembles the lower part of an oare. The neck of the gall-bag hath very

swoln veins; at the bottoome come down straight veins running outward, two sinews are Zootoni
Demo.
on the sides of the sharp artery, on either side P. 4. C. 399.
one, descending to the upper-mouth of the stomach, sending also branches to the said sides of the sharp artery. The said sinews are knit by one common nerve descending awry; then are set into the left side of the stomach, tied by many strings, where the sharp artery first parts appeare great *kernel*, and some small ones white, red, ash-coloured, mixed. In the sharp artery are half circles, parted as in man, but behind wrapped in a double coat; the one outward, and fleshy, the other inner, and sinewy sprouting from the circle-brims. In the heart are lappets-party-coloured, the right more spotted with black, and white, then the left; besides the right is thicker, and rounder, the left slenderer, and longer, like the dogs, both hollow, and stringy. In the right creek of the heart is a fold, like net-work, longer, and plainer to be seen then that in the dog; but not with such laps. The great artery is almost in the middle of the heart, inclining to the left side. The inner-coat of the stomach is rough all along, like the plaits in an oxes paunch, turning up into a round. Those tunics are very fast, tied to the upper orifice of the stomach; the pleats ly croffe. The Liver is coloured like that of the dog-fish. In the eare-bone a shell, a maze, a little window, a ring, a round muscle, three small bones, and a stirrop, but not bored through. In the brain are three creeks, two round with net-folds. In the eye the uvea or thin skin, cleaves not afore to the cornea, or horse-tunics, whence the lesse dilatation to this greater kinde; in that part is the uvea, coloured like a pale leaf. The optick nerve is almost in the midst, inclining downward, the outer thick skin somewhat covering the eye, as in the Cock. In the Hee-cat we observe, that there is something peculiar about the spermatique vessels, testicles, &c. A white streak, the third part of a finger broad, descending by the right side of the paunch, lies under the muscles of the Peritonæum; the membrane is very thin; the Peritonæum under the ensie forme, or sword, is fat. The *Kall* is very fast, tied to one right liver-string, and to the spleen, and stomach, and the gut *duodenum*, like a purse, or bag. The bladder fastened above to the Peritonæum, and below to the streight gut. The *stones* are covered with foure skins; the outmost called scrotum; the next dartos, the third, erythroides, or the red; the fourth is the imost. There is somewhat also considerable in the vessels preparing, and conveying the feed, &c. We saw the *uriteres* descending from flat, or hollow of the reins to the bladder-neck; also the *milk-veins*, tending toward the bunchy-part of the reins, both sprouting from the body of the hollow-gut, but the left is higher then the right, and all most twice as long. The straight-gut is tied to the beginning of the tayl by a middle-string; it hath veines, and sharp kernels.

Wee saw the mid-riſ, and meſeraick, and ſweet-breads, being a kernelly ſubſtance. Wee ſaw the blind-gut a rhuub-breath long; the other guts are uniform, but winding, and brittle. The reins large, bigger then a great nut, wherein are a few creeks, through which the piſſe is ſtrained. We ſaw the vein porta with it's meſeraick, and Spleen-branch, hereout ſprouts the coeliacus; a branch compaſſing the ſtomack, and conveys the melancholy humour ſhurther to provoke appetite. We ſaw the vein aſcendant, peancing the mid-riſ, and reaching the heart, and ſet into the right ſide thereof. Wee ſaw the peeries vein-branched from the hollow vein by the heart, and turning back-again, and deſcending by the backbone on the right ſide, which ſends forth ſprigs to the ribs to nourish them. The liver is diſtinguiſhed by fix ſtrings, out of the midſt of two of them on the right ſide goes the gall forth; the bottome ſhews like a bolt-eye. The gall-bag hath two branches, the one paſſes from the liver to the duodenum, carrying the dregs away. The other running back to the bladder, to be kept there. In the duodenum, foure fingers below the pores called cholidochi, is found a worme, little, but of the bignes of the ureterics: from the ſides of the aſcendant hollow veine, deſcends a ſinew to the fleſhy ringlet of the diaphragm; and another on the left ſide proped with the thin ſkins of the ſharp artery, conveying feeling to the diaphragm. We ſaw the uernagatins, which propagated from the ſixth conjugation of ſinews, are ſet in at the head of the ſharp artery; the one on the left turning upward about the great artery; the other about the branches of the arterie, tending toward the throte; the heart with a double lappet on the right, and left ſide, the right is greateſt, and blackiſh; the left of the colour of the heart. The heart hath a right venticle to beget vitall ſpirits, and a left one whether the vein-blood is conveyed, and it hath foure large veſſels; the firſt is the hollow aſcending vein, which is ſet into the left ear; the third, the arteriell vein, containing blood, having a double coat, whence it hath the name; this is ſet into the lungs, to nourish them. The

fourth is a vein-artery, ſet into the left ventricle of the heart, to convey to the brain blood, prepared there, to beget animal ſpirits. In the right venticle are lappets, or partitions, which keep in the blood, and ſo in the left. The lungs have fix fins. Wee ſaw the inner-muſcles about the larynx, or the head of the ſharp artery, which being inflamed, breed a ſquincy. There are kernells in the yard like a Cats-tongue. Wee marked the paſſage, leading to the bladder. The Cats brain-pan hath red ſtreaks like veins; the inner-ear is rarely fashioned, whereof they have ſuch uſe to liſten, and looked, and prey by night. Herein we marked the communion between the great artery, and the great vein, where the firſt parting is into the bowels.

I beleeve it is common to all living creatures what I obſerve in the tame Cats-back bone, for with the own membranes, it being covered at the end, that which anſwer the hard menynx, the inner ſends forth nerves from it ſelf, but ſince there are companies of them, like ſtrings, we note that they having paſſed a little way, meet as in one knot, as we in top of grain. And, ſince thoſe ſeverall ſtrings are covered with the ſame ſkins, if you ſtrain one, you ſpoyle the other, till they come to the knot. In one rib of the houſe cat was noted a round knob, like a tree-knot, the midſt whereof being broken aſunder was poroſe, and full of pits with drops of blood. My fellow diſſecters doubted whether it was the breach of a bone in anatomizing, or ſome error in the firſt ſhaping, and ſuperfluous ſtuffe. In a man out the flat part of the forehead bone, that lies between the two eyebrows ly equally on the right root of the noſe: Bruize but that bone, or peirce it, you find two long pits, paſſing ſidelings above under the ſkull, and below blind ones with partitions. Theſe are doubtleſſe the chambers of ſmelling, where the breath is, as alſo in the ear, which is but of late diſcovered. That which ſtrengthens my opinion is, that in a hound theſe cells are broader and more conspicuous then in man; dogs excelling in ſent. This is not found in a Monky, perhaps becauſe he needs not excell in that ſenſe.

THE



THE NATURAL HISTORY OF THE FOURFOOTED BEASTS. THE FOURTH BOOKE.

Of the Fourfooted Creatures that have toes, and ſpring of an Egge.

THE FIRST TITLE.

Of the ſkined ones.

CHAPTER I.

Of the Frog.

ARTICLE I.

Of the Water-Frogs.

Ambr.
Digit.
Ovipar.
L. C. L.



Lizard, Salamander, Chamaeleon, Crocodile, &c.

The Frog is either the water, or Land-frog. Called *Rana*, either from the ſummer-croaking *ra, ra*, or the Hebrew *רנ*, that is, to cry out.

In Greek *Batrachos*, from his ſhrill voyce, and *Box*, &c. By the Cypriots *Brouchetos*; the Ionians *Batrakos*; the Phocians *Tranachone*; by thoſe of Pontus *Babakos*; by the late Greeks *Bordakos*, and *Gurinos*, and *Brinai*, and *Parphufides*, from their puffed-cheeks with croaking. It is an Amphibium, living both in water, and on land; afore not fleſhy but behind; the hinder-legs nature hath made thick, and longer the fore-legs. They have five toes long, ſkined between, to help their ſwimming. The Shee is biggeſt; they have no neck, the belly white, the tong, as infants tied afore, but looſe by the throat, the milk ſmall, the liver imparted into three lappes, whereunder on each ſide part of the lungs is ſeen, frothy, not very bloody; the guts knotty, the teſticles, and other parts like thoſe of other beaſts.

In England are no green ones, but they

abound in Germany, Italy, eſpecially in Bononia. They ſwarm fo in the wateriſh places of Egypt, that they would deſtroy all, if the ſtorks did not devour them. They are ſaid to be dumb in the Iſland Seriphus, and Cyrene, perhaps becauſe the water is cold. They are in ſtreams, but delight in puddles where bulruſhes, reeds, and ſea-gras grows. They are ever found in the waters that never freeze, but not in brimſtony, or mare-waters, they being too clammy. They eat any creature that ſwim, are greedy after Bees, & dead Moles. Probably they eat herbs alſo. The male covers the female, which layes egges afore, and oft black fleſh, with fair eyes, and tail, and after they get the Frogs ſhape, the tail being parted into two hinder-legs. Strange it is that after fix months living they are indifferably reſolved into ſlime, and again reingendered in the ſpring puddles. But ſome in warmer waters laſt all winter, and in ſpring the old ones ſwim about.

The egges are ſhed about the banks of pones, and marſhes, hanging together as in a ſtring, like black bits of fleſh; Chymiſts call it ſperma, or ſpawn. They hate Storks, Swans, the Bozzard, the Salamander, Putter, Pike, Eel, and fire. Storks devour them. The Swan by eating them cures himſelf of a certain malady. They combat oft with Salamanders. It is well known how the Pike, and Eel ſwallow them. Kindle a fire by night on the banks where they are, they croke not, nor ſtir, you may eaſily take them in your hand. Their voyce is *Mizald, brekelex, kax, kax*, croaking; Aristotle calls the noiſe the hees make in coupling time *olobgon*, hurt them, they ſqueak like a mouſe. About Voyce. Cyrene they are mute. (But bring croakers thither they abide ſo.) In Seriphus alſo, and a certain lake of Theſſaly they croke not; their fleſh is looſe, whitith, moyſt, and ſubject to rot, ſo that they that oft eat them grow wan, and feveriſh: their lips are ſo cloſe in Auguſt, that you can hardly open them; they ly with the

Food.
Ariſt.
H. A. 19;
c. 40.
Gendring.
Ariſt.
lb. 15. c. 3;
Pin. 19.
c. 51.
Ariſt.
lb. 17.
c. 14.
Amphip.
thy.

Glyca.

Cent. 9.
Memorab.
About Voyce.

Pin.

Ariſt.
H. A. 13.
c. 28.

belly above, and the sides under. If you stop their breath you choke them. They love warmth, and therefore croak in summer, against winter they skulk. Busbequius heard them by Strigonium in December, the waters there being warm, and sulphurous. They are clamorous against rain, either because they feel it colder, or are much taken with sweet water. They can dive long having but small lungs. They are thought to dy in winter, and revive at spring. They lurk also in the ground, and come with their young abroad then. They couple by night, and on land, not for flame but fear. In Egypt, when they see the water-serpent, they carry a piece of reed thwart to prevent being swallowed up. In France they drove away a whole city. To know their sex, prick the back with a needle, from the Hee shall spurt out red blood; out of the Shee yellow water. Galen hath omitted their use in food. The common opinion is that they are light of digestion, yeeld good juice, but cold, and moyst. The Romans never used them, but now from May to October they are eaten roast, or boyled all but the head; the hips are best liked. Mundella counts them most harmless of cold things, and when they gender not. Others forbid the eating as venomous. See how to dresse them in Ambrosine. In Physick both in whole and parts they help against sundry maladies. They remove the blewnesse after blows. Tied on the jaws they ease tooth-ache, and sod in vinegar they fasten loose teeth. The juice removes squincy, and helps the almonds of the ears, and abates swellings. The soft pulpis given against tick, with Capons-flesh, Pine-apples, and Sugar; Boiled in oyle easens pain in the sinews. Against every poysonous bite it is cried up; the ashes stanch blood, Galeatius of S. Sophia saies it was tied to a Hens-neck, which being after cut off, there gushed no blood out. Some blow it into the nostrils for the Hæmorrhagia, and with oyl of Lilies kept in an leaden box, for the Interemta, and with conserve of Roses to help the wricing of the countenance. Ambrosine shews how to prepare the oyl. It is also cried up against joynt pain from a hote cause. The eyes men hang in fine linnen about the neck of the ill-fighted, the heart bound on the heart allays burning feavers, and hath helped fistules; the lungs taken out through the back, wrapped in an cabbage leaf, and burnt in a pot is given in the falling sicknesse, others take the liver. It helped the Elector Palatine. The dust of the liver some take, as a quartan fit comes, lay it afore pis-mires, and that part that they desire is an antidote against all venome; the gall helps the bloody flux, and kills worms in old fores; the fat drop d into the ears removes pains; the Spaw is good against the Brysipelas and other inflammations, enrods, scab, itch, morfew; the water helps the rednesse of face. A stasse on which a Frog shaken from a serpent hath been eases women in travell. Pliny relates fables about the tongue; as that Democritus saith that

if you take the tongue clear out, that it touch not any other part, and throw the Frog into the water, and lay the tongue on the panting of the heart of a sleeping woman, she shall in her sleep answer you all you ask.

Some spring from egges, some out of mud, Differeces. as in Egypt. There are green, and pale, and ash-coloured Frogs. In Storchonium a hill in Sicul. Bern are two lakes, wherein are Frogs with great heads, and long tails.

ARTICLE II.

Of Land-Frogs.

POINT I.

Of the Toad.

Called Bufo from blowing perhaps; Ambro. and Rubeta from being among Names. bushes, *Phronon*, and *Phruenen*, the poyson running to the head, and causing giddinesse, or from the shrub *Phryganon*. By Lucian, *Phufalos* from swelling, if but touched. It is thick skined, hardly to be peaced by the sharpest stake, pale, spotted, as if pimpled, belly swoll and pufd, thick-headed, broad-backed, without hair. One fort lives on land, and in marilish puddles. The phanly shady, rotten holes. There are none in Ireland; bring any thither (they say) they dy, sprinkle but Irish dust upon them.

They feed on earthy moysture, herbs, worms, bees. It is said they eat so much earth a day, as they can grasp with the forefoot. They lurk off under sage; there are sad stories of divers dying with tasting sage leaves, whether they eat it, or no is not known.

They are bred out of egges, and rotten stuff; and out of buried alhes; and in Dariene, from the drops falling from slaves right hands, as they water the floor, and from a duck buried; and from menstree, we read of womans voiding toads.

They hold enmity with *sale*, for being sprinkled therewith, they pine away to the bones, if we belevee Albert. Strong *cents*, as of rew, &c. drives them away, as also of a blooming vine. They fight with Cats, and dy for it; *Moles*, and they devour each other. A Spider strikes him dead at a blow. They Symptom. love Sage, Weezels will lide into their mouths. Plantan is their antidote against Spiders. By day, and in winter they skulk, and ly in the paths by night, and come about; they hate the Sun-beams. Hevygated they are, sometimes they leap. Strike them, they swell, and spurt poyson out behinde, and then certain stinking drops. They infect Sage, and make it as deadly as wolfbane; they cry, or croak *gru, gru*. When they crawl about in the evening, it pre-fages rain.

Their poyson is not much, nor strong; Poyson. especially of those in colder regions, but in hotter, stronger. The very salt wherein a toad

toad dies, melted in water, so infects it, that wet a rag, or shirt with it, it brings an incurable scurf. If you would take it off, either prick the skin, or whip it, or prick the outside, and cast it into water. One poysoned swells, looks wan, sighs, is shortbreathed, and taken with feed-flux; sometimes with the bloody-flux, inflammation of throat, and giddinesse. There was one, who with the cane, that perched a toad, to venom his hands, that he vomited up the meat he had handled, and never ceast spewing, till hee scape his meat from others hands; they who scape death, most commonly find all their teeth.

For cure, men use River-crabs, stamped and drunk; and toads-ashes, and right Harts-horn, breast milke, fasting spitte, reed-roots, the herb *poterion*, or *phrynon*, taken in wine, Malta erd, Emerald, triacle, and without oyl of Scorpion. Some cry up the toads-stone; adds Mithridate, and the quintessence of Treacle.

As harmful as the toad is, and vene mous, it helps against venome, and otherways useful. Some seeth it in a plain pot with Bears-greafe for the joynt-gout. Boyled in oyle, men annoint with it, swellings with successe. Cut it up, and clap it to the reins, it provokes urine; which also cures the dropfy. Boyled, and made into a playtter, helps the Squincy; the string also whereon it is hanged.

The inner-fat, (and stufe one Laureola-root, and Hens-dung, salt, and oyl of Dialecthea) dropping from it, when roasted, is good annointment for a situla; also the powder thereof roasted to a cole. Dried in the shadow, and wrapt in a linnen, and held in the hand, it stanches blood; the alhes prevents the enrods overbleeding.

Nicolaus makes a playtter thereof. Others hang it dried about the neck, for an amulette against the pest. Crollius sprinkles the dust of it on all venomous bites. Some against a Cancer, take a thick toad, weigh it, and take Crabs alive of the same weight, and dry them to dust over a soft fire in a plain pot, leaving a little hole for vent. Helmond was taught by Butler of Yreland, out of a toads-carcaffie, and earth, and those small creatures, that he uses to vomit out in three days, hanging by the fire into a waxen-plat, makes pellets with the gumme tragacanthus, and that dill, and hangs them at the left pap, to repell contagion, and draw out the venome; the older, and more used, the more powerfull; the toad taken in July, after-noon. He tooke some also at the waining of the Moon in July, whose eyes swarmed with white worms, with black heads; so at least, as if both eyes had been turned into worms; they clinged thick together in either eye, their heads sticking out; and as any endeavoured to come forth, the toad with his paw hindered it. Hee vomited flies with shining wings, handfome, and greenish; and by and by, after died of vomiting. The feet of a living toad, when the Moon is in the last quarter, being cut off cures neck swellings, if

they be hanged on of the toad-fine hereafter.

In the new world, in the Isle Peragua a Spaniard for hunger, ate boyled-toads, faith Pet. Martyr in his Decades 3. l. 10. And Lelius, that the Brasilians eat them roasted, and never unbowell them; they give a burnt-toad to their Falcons, to prevent the tooth-eating of their feathers. There are that shut a toad in an earthen-pot, and hide it amidst their standing corn, to prevent blasting in tempests; to omit the foppery about the right side-bone; they are differenced from place, shape, and bulk. For place, some are found in and about sacred places, and things. In Sneberg, and Mansfield, bring them out, they swell, and dy.

At Tholouse was one with white spots, found in a red sand-stone. A Mason of Antwerp found one in marble. Agricola saith, they are in those they make mill-stones, and afore they shape them, they had need looke well, if they lurk not therein. About the shape, and bulke, writers mention many things; as of a bunchbacked toad; see his figure hereafter, &c.

POINT II.

Of the green small Frog, and the temporary Frog.

The green Frog is very small. Some call them *calamites*, from their being among reeds, and *caneis*; some *agredula*, or *field-frog*, some *wood-frog*; they delighting much to be there; or as to difference them from the green Frog that men eat. The Greeks call it *Kanthis*, from croaking against rain; and *Druobatar*, from their skipping amongst trees; and *Diopetax*, as dropping from the sky; and *Brexantes*, from croaking.

It is all green throughout, except the feet. It is usefull against many griefs. Spit into the mouth, it helps a cough: Held in the hand, it allays a burning-feaver. Some Cran-hens with puls of barley-meal, and the flesh hereof boyled, and give the hen to those in heticque feavers; some cut it in the midft, and apply it to the reins in dropfies, to fetch out the water. The liver tied in a Cranes-skin, makes lusty. The fat is good for tooth-ach. The blood dropped in, where hairs on the cheeks have been plucked out, keeps them from growing againe. Some prick the Frogs with a copper pin, and annoint those places with the blood. The temporary Frog hath the name from its short life.

CHAPTER II.

Of Lizards.

ARTICLE I.

Of the common Lizard.

Called *Lacertus*, because it hath arms, and hands, that it breeds, and turns like a man. In Greece *Saura*, *Smulla*, &c. Leaving Pliny, who writes of rusty, iron-coloured ones, and Scaligers division into lesser, and greater; wee shall distinguish them in common, green, and brasse-coloured, and Brasil, or Indian ones. The first have five very small toes, with nails in the foote, and hinder-feet; the thumb short, the fore-finger longest, the tongue hairy, and cleft; dry lungs, small and round milt, testicles, cleaving to Spondyls; the secrets of the Shee like a fowls; and the eggs so lying, and fenced. There are store in Italy, great in Caprea; and so common in India, that they creep into the beds there sometimes. Those of Arabia are a cubite long; in Nyssa an Indian Hill, foure and twenty foot long, and yellow, or blew. They inhabit commonly graves, dens, thorny places, and ruined heaps. At Genua in the Prince of Doria his Fort, wee saw very many in the open ayr. They eat flesh, herbs, bees, ants; they gender about the end of March; they close as one body like serpents, they lay eggs, and bide them in the earth, and the young come abroad; (though they sit not on the eggs) at fet times. That they bring forth at the month, and devour their brood all, but the one slug is a fable. They hate the stork, that feeds her young with them, and spiders with their webs, intangle young Lizards in holes, and crevices of walls, and strike them dead, also toads, Scorpions, and Serpents, with which they fight; whence called Ophiomechi. They love flesh of shellfish, and dittany, which is their refuge after combating with Serpents; and man they love, and protect him from serpents. They will lick the spittle out of your mouth greedily: In time they loofe their fight, and recover it againe, either by course of nature, or by the sun, in whose beams they ly lurking till they be recovered. They lurk the six winter-months under ground, and there lay up store. The female is greatest. They go in couples, and defend each other; and are mad at any that take their fellow. They forget the eggs they lay; cut an egge in two, it is not lost, by reason of the glewy humour; they naturally cleave againe, as may be seen by the scarre. Their tayle are said to grow againe, though oft cut off. It is not true that a dried one turns Viper. At Paris have been seen foue as big as a great fish. Some have three tayls, and some two heads. Torn in twain, it cures a Scorpions bite, and eaten it is good against

the Salamanders poyson. The oyl of them drowned, and boyled in oyl with Sheep-dung, is a good anointment for swellings of the neck, and face morfew, and pimples. The powder with crematatar, and candy-oyl, helps dim fight; the green are best. The brain helps Syffusions. The head bruised to a poultice, and laid on alone, or with long aristolochia, root of reed, bulb of Narcissus, draws out arrows, and thorns, stick they never so fast. The heart burnt, and mixt with dreges of wine, benums, that you shall not feel the chirurgions probe. The blood keeps rickets from growing, if you annoint infants thighs carefully therewith; and is good, if they be bursten: the dung is put into the medicine for horses stranguiry. Kill one in a mans piss, it abates your lust.

ARTICLE II.

Of the green, and the Brazen-coloured Lizard.

THe green Lizard, or *Chlorosaura*, is called also the Greater; and the Serpent-fighter, (they worshipping serpents.) They haunt hote places, as Italy, where coming of many abroad at once prefiges a sickly time. In summer they bide in trees, and croak like frogs; and have two tails. The figure below shall save labour to describe them. It is usefull in Pluick; ty it on thirty dayes for neck-swellings, and then change it. Childrens burtings are cured by a bite, then shoot him through with an arrow, and bloat him. Boyled alive with wine, and given fasting, it helps wheefings, and od fow oyl, face pimples. With tarre, and an old fow greafe it takes away tendernes of Horse-hoofs: It makes the hair black; And it renews hair. See in Ambrosine the ointment for the falling sickness. The ashes help exulcerated neck-swellings. The bones help them in a swoond, after you powder him alive in a stone pot, and the flesh fall off.

There is a Lizard with brasse-coloured streaks down the back, called *Ziglis*, Samiamithon, and Sepa, a serpent, because the flesh it bites, rots, and Tarantula, but amisse. It resembles the small Lizard, and is coloured like the serpent *Cæcilia*. It is bred, and lives among the stones in Syria, Lybia, and Cyprus. It beares young, as the viper doth, but carry eggs in the belly, as other animals that lay eggs. Fabius Columba killed one in a French camp, and cutting it up found fifteen young within her; some hath a thin transparent skin, some none, cut it in two it cures a bite. Galen prescribes it among pickled meats.

ARTICLE

ARTICLE III.

Of Indian Lizards.

POINT I.

Of the Senembi, or Igvana.

THere are many kinds of Indian Lizards; the most famous are, the Senembi, or Igvana (the Portugees miscall it Camelion, and the Dutch worfe, Legvan) long from the mouth to the tail end three foot, eight fingers, compasse ten fingers. The whole skin of a delicate green, with black, and white spots, chequered, like chamelet; it is scaly, the greatest scales are on the back, thighs, and tail, and here all equal. From the neck to the tail end a row of plain ones, like saw-teeth, and green; the head about two fingers long, and scaly; the scales greater then elsewhere; the neck a finger and half long, five thick, their eyes large, clear, and blackish, nostrills wide, the teeth many small, black, short; tongue thick, the head on each side black spotted, a gullet hanging as fish gills, or a crop down to the breast, most part blackish, that he can gather up, and let hang out, when vexed, or frightened. From the mouth to the crop it hath bristles, and on the back, it hath four thighs, and four feet, on each five toes, all scaly, the fore-thighs are shortest, and slenderest, four fingers long, and the middle toes shorter then those on the hinder-feet; the nays black, and crooked, like bird-claws, &c. The hinder-thighs like a mans calf, the foremoft not; the dock five fingers thick, and so the tail thinner and thinner, and ending like an aul. One being kill and head, yet waged after, and the heart taken out leaped; it had in either side above ten eggs, some as big as a cherry, some lesse; the fat plainly seen, as a Hens; in the stomach was much fruit, especially sweet Limons, which was the usual food. They eat also meal and Mandioca-water. They can fast two, or three months together. The flesh is well tasted, boyled, and long tried with butter, it tastes as well as chicken, or cony. It hath heart, lungs, liver, gall-bladder, reins, bladder, genitals, as other beasts; a large liver, a double stomach, one afore, receiving the food, whence a gut as big as the little finger, and about ten fingers long, whereto is knit the other ventricle, that digests food, hence passe the other to the strait gut. In the fore-stomack of one was found great store of Mandoa meal, and Angolas milk raw; the hindermost, the greater, was stuff'd with half digested meat, whereto cleaved many mites, as in cheefe; the last gut held the dung. Being head, and the tale cut off, it stird yet, five or six strokes on the head could not kill it, till a cut was given in the neck; the tayl-flesh is stringy, and finewy. Anno 1641, was a stone taken out of a Se-

nembies stomach, as big as a reasonable hen-egge, and so shaped, but not so round, but squatter, without smooth, bright; within made up of coats, like an onion, to be pilled off; within it was bright gray, hard as a Bezoar-stone; they fit in trees, and are taken in lines, that the Brasilians know how to fit a club, which the beast spying, wonders at, but stires not, suffering it self to be ensnared and taken, else he is very swift; the younger are all over green, the elder party-coloured, or ash-hewd. In Fr. Ximenes, their heads are sometimes found small stones, that lessen, and void the stones in the reins forthwith, either by the juice drawn out, of a dram weight; or tied to the body. It were good to try, whether those found in the stomach, have that virtue, or no.

POINT II.

Of the Tejuguacu, Taraguira, and Americima.

THe *Tejuguacu*, and *Temapara Tupinambis*, is a choyse Lizard, shaped like the Senembi, with this difference; that this is all black, but sprinkled with goodly white spots, and toward the tayl seems to have white prickles. Next the tayl is thicker at the dock. 3. It wants those sharp bristles along the back. 4. The out-toe on the hind-feet, stands a little loof from the rest, and is shorter. 5. It hath a long cloven tongue, red, smooth, which snake like, it can suddenly thrust out a finger long, and withdraw it. It yeelds no voyce, is patient, loves raw-eggs, can fast long. The Markgrave kept one in his chamber, tied, and sometime loosed, gave it water out of a glasse; unlesse, when thirsty, it used to sit all day, moping in a corner. It loved to ly on hot ashes. One trod of a piece of the tayl, yet it grew two fingers after: In two month it ate not, and so pined to death; onely it sometimes licked in a little water; the flesh was eaten.

The *Taraguira* of Brasil is a Lizard, in, and near their houses, common in their gardens, and everywhere; about a foot long, and some lesse: the body round, all full of three cornered ash-coloured scales: hath no crop under the chin, the back plain; they nod nimbly with the head, when they spy any things, and run swiftly, and wagging. They wake a man, if they see any Serpent, or venomous creature, making toward him. As they couple, the Hee bites the Shee gently on the neck, and pulls her to his side.

The *Brasil Americima*, is a small Lizard, three fingers long, and no thicker any where then a Swans-quill; footed, and ledged as the Senembi; blacke-eyed, almost square-bodied, the back clothed with ash-coloured scales, the sides with dusky ones: the leg, legs, and tayl with blew ones, all bright and smooth, the toes like hogs-bristles. The Portugees say it is venomous,

round, joyned like tiles, the corners sharp as thorns, they are transparent, and of a pale yellow, as horn; the belly struts out more then a Crocodile; the back broad, and flat. This may proveo Alians Indian Phattages by the description, whose rough skin they use to cut with.

CHAPTER VII.

Of the Chameleon.

Ambros.
l. 1. c. 14.
P. 1.
Ovip. l. 1.
Name.
Described.
Plin. l. 8.
c. 33.

Arist.
H. A.
l. 2. c. 11.
Theophr.
de mutand.
color.

Arist.
Belon.
Gessner.

Gassendus.

Place.
Belon.
Oliv. l. 2.
c. 34.
Food.
Plin.
l. 8. c. 33.

The name imports a little Lion; the notation from a Camel, and a Lion is ridiculous; of late the wild cat is Gamaleon, Zamaleon, Hamaleon, and Maleon. It resembles a Lizard, only the thighs stand uprighter, and higher; the sides are joyned to the belly, as a fish, and the back-bone such snoured like a hog; the tail long, and pointed, with rounds, viperlike, it is crooked clawed, it is rough-bodied as the Crocodile, the eyes hollow, and sunk, great, and coloured as the body; the flesh is but little about the head, jaws and dock, elsewhere, none; it hath blood only in the heart, and about the eyes; the bowels are without spleen. The lungs take up almost the whole body: Thus Arist. and Pliny. Others write, that from the midst of the head backward there sticks out a three cornered part bouy, and the rest afore is hollow as a pipe; the brims on both sides sticking out bouy and sharp as saw-teeth: It moves not the eye-balls, it is ever gaping, hath a long tongue, like that of an earth-worm; at the tip is a pungy glewly knot, wherewith it preys. In stead of teeth and gums it hath one continued bone, knaged; the upper-lip is shortest, the throat, and artery like the Lizards; the heart as big as a house-mouse; the liver hath two lappets, the left greatest, the gall-bag as big as a barley corn, cleaving to the left liver-lappet, bowelled as a Lizard; the forefeet very different from the hinder; the forefeet having three toes inward, two outward, the hinder three outward and two inward; It is from the snout to the dock seven, or eight fingers long, five fingers high; it hath about sixteen ribs bending between the bottome of the belly, and the ridge of the back, and it is spotted like a Leopard; the teeth stand comily, he hath but one gut cleaving with bendings, the excrement moyst, unlesse near the fundaments; the liver parted, & on the bunchy side pouring the blood into the hart that hath ears, and not veins; the lungs being puffed passes into a thin skin reaching round almost through the whole body; there is no rim at the belly bottome, only a thin skin severing the right from the left parts: He hath no milc, no bladder, no reins to be seene, but small bits of flesh, that, it may be, are genitals; the tongue is near a foot long. They are in Asia, Africk, India, and Madagaicar. They fit on the garden hedges at grand Cair by the banks of Nile; as also on bramble-bushes. Of old they were thought to live on air, but they prey on flies, locusts, but they fancy most the worms in meal

tubs. They keep above for fear of serpents and vipers. They use their tongue as a trunk, darting it forth with that nimbleness that you can hardly perceive it, by the means of a small forke bone planted on either side the ends of the jaws, the tongue is hollow, like a gut, which he can infold, and unfold at pleasure; at the end is a slimy bit of flesh to prey withall. Peirefcus kept eight of them to observe their breeding, there were in one female within a thin skin above a hundred eggs, some as big as an olive kernell, all yolk, no white seen in them, yet resembling milk. They hold enmity with the hawk, which will dy, it is thought, if he but tast a Chameleon, and a crew also, unlesse bayleave fence him. The Elephant is fabled by Solinus to swallow them they being of the colour of the leaves, and they cost him his life, unlesse he help himself by wild olive. Fear of vipers, and serpents makes him live on shrubs, and trees. His spittle let down on a serpents head, like a lined thread, kills him. Wild figs make him wild, who is otherwise harmless. He turns his whole dy about, sits high, ever gaping, when dead he is pale. In winter he hides himself, as Lizards do. By nature he admirably changes colour but in eyes, and tail, and whole body according to the colour of what lies next, except red, and white; yet Ambrosine affirms from a Gentlemans testimony that he changes to white. But Peirefcus his eight changed not colour. Whether they be green, or all they put on a black, if you turn them to the sun, or fire. It is strange, that their eyes being combined move not but one looking any way, the other is fixed, or bends the other way, which deflection comes from the four pulleys in them, there being no distinction of Iris, but only a ball, wherein the horny part ends, which is glistering, and various, as the rest of the body. Those of Cochinchina eat them. They bind many together, and sell them, being bought, they are cast into the fire, and roasted. Flea one, the flesh is very clear, which they seeth in a liquor like our butter. Soda away with oyl in a new earthen pot, it drives away an Epilepsy. It makes a rare ointment for the gout; see the composition in Trallianus. The tongue hanged on helps memory, and women in child-birth: the gall fluff fluxes. The hart wrapt in black-wool first thorn helps a quartan ague; to omit fables about raising storms, a making mute, &c. with the heart, tongue, &c. you must know it is Pliny, who, though learned, and usefull, studied too much to delight men. In Egypt they are pale. In Arabia much smaller, and of another colour, as bright, yellowish, and red-spotted. Wee have given here the shapes of the pale, and black Chameleons.

CHAP.

CHAPTER VIII.

Of the Crocodile.

Name.
Described.
Kircher.
l. 172.

Described.
Belon.
Lian.

Belon.
Fian.

Belon.

Described.
Belon.

Belon.
l. 196.
Described.
Belon.
l. 196.
Described.
Belon.
l. 196.

Belon. l. 2.

Described.
Belon.

Described.
Belon.

Belon.

Described.
Belon.

Described.
Belon.

Described.
Belon.

HE is a kind of Lizard, so called from dreading the shores. The Egyptians terme him Chempfa, the Turks thence Kimfak. Kircher, Picharouki. Statius the Pharian wild-beast, others Tenechea. In Arfinoë, Suchus, in India, Cayman. It resembles a Lizard, it is of a Saffran colour, but white-bellied, and there soft-skinned, elsewhere musket proofe. Some have been seen six and twenty cubites long. By Panama there are some of above a hundred foot. The head is broad, the snout as a swines, the gape reaches to the ears; the eyes sharp, and piercing, and like a hogs; he hath a row of great, bright strong teeth, like a comb, about sixty in all; more in the upper jaw, and sticking out, seen when the mouth is shut. The tongue cleaves, and is uselesse. The under jaw he fits not, the testicles cling to the inner-loins. The back-bone is made up of sixty turning joynts, tied by as many sinews; the claws are very sharp bending somewhat toward the sides; the tail is of the length of the rest of the body, wherein is a finne of seven fingers to the end, M. Scaurus was first who in his Edilship shewed five in his plays in an Euripus made for the time. They are found in Africa, Asia, and America; especially in Nilus, and neighbouring pools in Niger, in Ganges about Bengala, in the river Bambotus near Atlas, and not far from Chalcedon, but small ones. They love warm waters. In Peru are none till you come to Pacra, then they are frequent. Some live in miry places on fish, but are most greedy after mans flesh. They prey also on beasts on land. There was one taken that had swallowed three young ones. About Arfinoë they were held holy, and nourished of old by the Priests with bread, flesh, and wine. Some gave them dainties, rofmeat, and mingled drinks. The Shee lays sixty eggs, as big as Goose-eggs, and by a kind of divination, where the Nile, when it swells, comes not. Shee lays and hatches sixty in sixty daies. Gyllius hath marked that the young have crept out of the sand, where the eggs have been hidden, the eggs grow not greater. They hate the Ichneumon for spoyling their eggs, and endeavouring to creep into their mouths, while they sleep, and gnaw their bowell; and the wild Ox, that can over-master them. The Tiger, because they teare them, when they take them lying on their backs, and hawks, and therefore the Coptitz, that worship the Crocodile, kill up the hawks. They that carry the gall of a water-serpent are said to be safe from the Crocodile. They let the Porpisci alone for the prickles on his neck.

Dolphins get into Nilus under their bellies, and tear them up. Abillus, Gouverneur of Egypt, was eye-witnes of it. Scorpions wound the young, as they break out of the egge.

They feare a mans voyce, and fly if a man Sen. Nat. pursue them; the Tentyria they hate, who dwell on an Isle in the Nile, a people of small stature, but courageous against Crocodiles, that are terrible in pursuit of those that fly them, and fly those that pursued them, but that people alone dare encounter them, and swim, and ride them, and thrust a club in their mouths, and as it were bridle them, and captivate them, and terrifie them with their very voyce, and force them to disgorge bodies, newly devoured, to bury them, so that Crocodiles shun only that Island, and fly, if they but smell those men, fly them as Serpents the Pyllii. When in Scaurus his time they were brought to Rome, Tentyries kept, and managed them in shews, in fish-ponds. Among plants they avoid the prickled beane. Diverse use to carry Potamogeton with them as an amulet, or preservative against the Crocodile.

They agree well with the hogs, so that they are saved by the Niles, and with the Trochilus, (called king of birds in Italy.) that, while they ly gaping after eating, picks their teeth, and jaws clean; which the Crocodile likes so well, that they invite the bird, and gape on purpose. With eating of much fish, worms breed in their chaps, which the Trochilus eats out; which having done, the Crocodile would devour the bird too, but that it hath a sharp prickle on the head, and makes him open his mouth, and so the scapes. By night they keepe in the water, by day on land; the same way they come forth of the water; they returne, keeping a track. Their legs are short, and they cannot easily turne aside, they leave a sweet scent, where they goe; especially the female, so that no Arabian sweets excell it, as the Inhabitants by the River Nilus say fourme months, some say forty, some sixty daies; they hide themselves, and eat not. Artemidore the Grammarian, was so affrighted with the sight of one, that he lost his wits, and learning, and verily beleeveth, that the beast had bit off his left legge. When they feed on a mans carcasse, they with their teares, some say, break the brain-pan for the brain. They doe more harme to those that goup the stream, because the fishers catch the fish, they would prey on, and so ravine fiercely on man, and beast; and so after Niles overflow, when it returns within its channel, for want of fish, in the shallows at the rivers mouth, where they lurk in the slime, watching for what ever comes to drink. They follow boats against stream, when the boatmen thrust with poles, and with their tayl strike man, and pole overbord. It is a tayl that they hurt no man, while Apis, his birth is solemnized. Achmed Ben-Tolon; finding a leaden one at the foundations of Temples, commanded it to be melted. The Priests guessed, that one of the Potomoes was near & 9.3. death, when their old, and cheef Crocodile being called, came not, and refused the meat, offered him. Being tamed, they know mans voyce, and will let men handle them, and

rub their teeth with a napkin, and gaped to that end. No wonder then that in the Omibitan Marishes, that they are brought up by art, and tamed, and fed with the heads of their sacrifices. In the town Antem, an old woman was taken in bed with a Crocodile. Many learned say, they live as long as man, some sixty years, some eat them. The Apollonopolitæ were bound by their law to eat them, either, because the daughter of King Phammetus was devoured by one, or out of hate of the tyrant Typhon, who was fained to be turned into a Crocodile. In India they roast them, and in Florida they dry them, and in winter feed on them. The eggs also in the new world are eaten, and in Egypt. Sudden, they cure Spider-biting; the dogs-teeth stuffed with Frankincense, asswaged Fevers. The blood clears eye-sight, and helps stung-parts. The fat annointed on, is good against flaking in agues, and old sores, and cancer. The *skinn* burnt, mixt with dregs of oyl, *stupes* a *lib*, to be cut off, or feared. In India they cast delinquents, bound to Crocodiles. In Pegu they keep them in their City-ditches, that no man may swim over in the night. The Inhabitants, because they worship them, drink the ditch-water; and beleaved that all killed by Crocodiles, fly strait to heaven. Firmus a Tyrant of Egypt, being annointed over with their fat, swam safely among them. Some are greater, some lesser, as Scinci. Some called Tenchea. In Ganges, there are harmles ones, and harmful, with a horne on the snout. In the Province of Xanagarra, they leave a sent like musk where they goe.

THE SECOND TITLE

Of the Beasts that have Toes that come of an egge, and are shelled.

CHAPTER I.

of the Tortoyse in generall.

Hee is called Testudo, from *testa*, his shell. In Greeke *Chelis*, &c. from *Cheo*, to be capacious. It is no slightly beaft, covered with an oval shell, like a target, whereunder it hides head, feet, and tayls; the head litle, the tayl as a snakes, the looke rough. Sevrall writers give the shell severall names, as hided, covering, shell, &c. In Greeke *Cheloonian*, and *Ofstrakon*: In stead of teeth it hath one continued bone, the lungs are very large, and bloodles: Liver tainted, testicles cleaving to the loyns: milte very litle; they have reins, and bladder, and but one passage for excrement, which is therefore ever wet. It is footed like the Lizard, having five toes and nayls. Cardan saw one with a nayl in the tayl like a cocks-spur; and the tayl of such as of Lizards, cut off, grows again, and harder. They are found on land, in Sea,

lakes, or muddy places; they abound in the Red-Sea, and are fold in the Markets. They are in the Isle Dioscoris, now Socotora, and Mauritius, once Cerne: they meet to gender, as others that lay egges: they delight not in coupling: they lay egges like Henne-egges, but lesse, and longer, with shell, white, and yolk: the shell is so hard, that a Cart may drive over it, without bruising it; it never changes it, as other shelly creatures use. In winter-moneths they hide themselves in the earth, and eat not, comming forth, they creep slowly, whether from feebleness, or their nature. They are at variance with Partridges and Eagles, that snup them oft up, to crack them on Rocks; as onelet one fall of the bald-pate of the tragick Poet Æschylus, mistaking it for a stone, and killed him; who abhorred to lengthen life, according to Hippocrates directions. Their voyce is a little louder then a snakes hiss; they fight with Serpents, fencing themselves with origanum, &c. Some par-boyl them, and then fry them in steaks. Some reckon them among fishes, and allow them on fasting dayes, others not; they have bones, and breath. Not to speak of their eyes. Some Americans count them dainties: the flesh is useful against dropfic, and short-breath, or wheefings. Boiled, they remove the loathsome of glutting of hony. The alhes of the shell are used against fistulæ, and shedding of hair; and with oyl, and wine, against fore legs; and in a fume, against Emrods. Burne them, they close chapped-nipples, with the white of an egge; and they help bursten people: the blood of the head cut off, when it lies on the back, and dried in the Sun, quenches S. Anthonies fire, and removes warts, and mortew; and is good for a fore-head, and with ants-egges, Henbane, Hyofcyamus, & Hemlock, is made an excellent oymtent: the shell makes a good potlid that keeps the pot from boyling over: the blood in wine, makes abstemious: the flesh fattens Horses, and Hogs. Vegetius makes an oymtent of the live Tortoyes, burnt on chips, and raw Allum, and Deers-marrow, and wine, to make cattells hair grow. The shell-shavings drunk in wine, allay lust. Of the greater, some have framed tables, vessells, and beds. Pliny, and Seneca, complain of the luxury in this kind under Nero, and of counterfeiting the colour of the shell, to make coverings for cup-bords. The Amazons made shields of the shells, and cradles for their children. Pliny divides them into land, and Sea, and Ponds-tortoyes, and such as live in sweet water, called *Emyle*. In the Isle Zambol, are scene small beasts like them, round-bodied, cross-streakt; at the end of each streak is an eare, and an eye; they have but one belly, many feet, and can goe every way. The blood is soveraigne to close any wound. Gesner calls it the *many-footed Tortoyse*. In the Isle Mauritius, under the line, they are so large, and strong, that they carry men too, and fro; the Portugees speak of fifteen such.

CHAPTER II.

Of Tortoyes in speciall.

ARTICLE I.

Of the Land-Tortoyse.

The Land-Tortoyes is called by some the hill, wood, field, wild-one; in Greeke *Chelœian*, &c. It is as the Salmarder markt with yellow, and black spots on the back, shelled like the sea-one. The under-shell of the female is plain, but of the male hollow, and heavier; under the under-shells are two moving muscles afore, on each side one, either seems double, the greater outward, the lesse inward; both rising fideling as out of the arm-pits, springing from a thin skin clinging to the shell, and ending in a sharp tendon; under these long, round muscles six other appears long that haply bend the arms. Two come to the thighs sprouting from the foresaid membrane, these are lesse then the former, but more fleshy, and are set into the thighs. The backbone is compact, and fastened strongly to the shell, in the middle of the length. Below the head in the midst a fingers breath from the sides defend two muscles, plucking the head inward, and two other a little below, all long. The liver is parted but alike big on the right, and left side, without bunched, within hollow, on the right side craggy containing in a strange workmanship the nether mouth of the stomach, and a part of the duodenum; the left side holding the greater hollow of the stomach, like a hollow eyebrow. The gall bag lies deep in the right string of the liver. The stomach nearly resembles a mans, or swines; but after it comes to the bowells it hath three large hollows, wherein are perfected the three digestions. In the two first is a herby substance, the latter better wrought, and from hence cleaves the milte round, and black; in the third a certain moystish, and very white substance, like a chewed chesnut, but walshy. It is thought this serves for a bladder, that, as Hens use, darts out sometimes a white moysture. It is large, and shaped like a chesnut, thin, and of a large conveyance. It clings fast to the peritonæum. The straight gut at the end hath such side passages, as all Cocks have, but parted, and reaching into the sides, even to the reins. Here on each side ly their egges. The mid-rif is interwoven with great veins. The heart is roundish, and whitish, hollow on one corner, placed just above the liver. The sharp artery (which is worthy marking) a little after the beginning is cloven, and the branches are twisted. The lungs above cling to the back-bone, thin, not fleshy, but rather skinny, set into the sharp artery, like a blackish net-work. The disposition of the Hoyois-bone, and shield-gristle is remarkable. In the skull of the Sea-tortoyse is a partition. These come about in the deserts of Africa, and in some part of Lybia, Also in the Arcadian

woods; they of old made harps of them. They are most in the Isle Dioscoris in the red-sea. Living in the deserts they have been thought to feed on dew. Others say they crop young sprouts of pot-herbs, and Pompions, &c. Worms also they eat, and shell-fish. In house they kept with bran, and meal. To passe by fables, of their being gendred of Geranus a woman turned into a Crane, and Nicodamas. They lay hard shelled, and party-coloured egges, which they hide in the ground, and at times sit on, and the following year they foster them. It is a mistake that they conceive only when the wind blows. It is certainer, that the female being very slow to coupling is of the male quickened by an herb. The Greeks eat them not. Certain Hungarians seeing Clusius taist of one, beleaved he should dy of it. In India they are commonly eaten, In August, and September, when corn is ripe, they are tasteft, and most cried up. Some say, from February to May the Shees are best, being then full of egges, and from June to Autumne, the Hees. Some praise them with garlick sauce. At this day at Bononia they behead the female Land-Crocodile, and throw away the blood, and seeth it till the shell fall from the flesh, and wash the inward, and boyl all together with saffran, sweet spices, pines, and raisins in Malmwy, so serve it in. The flesh makes good perfumes against witchcraft, and payson. In Africa they cut off the head, and feet, and make an antidote of them. In pottage eaten they disperse swellings, and help the falling sicknesse, and spleen; the blood clears the ey-sight, and removes blood-shot, rednesse in the eyes, and helps against all venome of serpents, spiders, toads, the blood wrought with meal into pills, and take in wine; the gall with Athenian hony is good for the yellow in the eyes, and the stroak of a scorpion; the alhes of the shell kneaded with wine, and oyl, closes chaps, and ulcers. The scales shaven off at top in drinke allay, as the powder of the shell inflames lust. The urine I thinke is not seen but in dissection, but is thought good against aspick-bites, better, if mixt with hog-lice; the egges hardened make an oymtent for swellings, and ulcers coming from cold, or burnes. Some swallow them in stomach-aches. Among the Bononians there is syroop of Tortoyes for short-breath, and consumptions. Some also made a decoction for rheums, and cough, described by Amatus the Portugees. Wecker compounds an electuary against sharp uds of seed. Galen staunt the liver to drink for the suffocations of the mother. In India are great ones. They pluck off their shells with spades, they have fat, and sweet flesh. In Brasill is one called Jubeti, by the Portugees. Casado de terra; hath a black shell with many fix cornered marks thereon, snowed as others. The head, and legs dusk, but shadowed, spotted. The liver hath a more savoury tast, thenof any other beaft.

ARTICLE II.

Of the Water-Tortoise.

POINT I.

Of the fresh-water, and Pond-Tortoise.

Pliny calls it water-mouse, and Emyda. The clay-coloured is called Myda. In Greek *Potamia Chelonia*, or river-Tortoises. They live in fresh water, in lakes, and rivers, as near Adelfing in a small lake in the Tigurine territory. And near Constance in a lake that runs long, and wide among the rocks, there are plenty of them; the women of that city call them divells, and ascribe all their sicknesses to them. They wander also in Ganges, and Nile; they breathe. In breeding time they dig a hole on dry land, where they lay and hide their eggs, and after thirty days they uncover them, and bring their brood presently to the water. Of the fat braized with Aizoon, or the everling herb, and Lily-feed some annoint those that have quartans all over, but the head, afore the fit; then they wrap them warme, and give them hote water to drinke. They catch it on the fifteenth day of the moon, when it is fittest, and annoint the patient the day after. The blood dropped in eases head-akes, and swellings. Some behead them lying on their backs with a brazen knife receiving the blood in a new earthen pot, annointing with the blood cure all kinds of S. Antonies fires, and running fore heads, and warts. The dung is said to disperse waxen kernels. Some believe that ships sayl slower, if a Tortoise right foot be aboard. The Indian river-Tortoise is just as big as a Boat, and holds sixty bulhells of pulse. The clay, or Pond-Tortoise *Pelamida*, and *Amida*, is alike broad on back and breast; the shell makes a hand-some cup. It abides in muddy places, but at spring seeks running-water. They want bladder, and reins. They are scarce about Ferraria, and in France, Poland, Hungary. Some thioik to drive over a shoar of hayl by laying one with the right hand about their garden, or field on the back, so that it may fee the cloud big with hayl. Some lay three on a fire of chips, and take the bodies from the shells, and par-boyl them in a gallon of water, and a litle salt to a third part, and make a drink for palsy, and gout, for those that have feeling. The gall is good for flegm, and corrupt blood. Drunk in cold water, it stays a loosnes.

POINT II.

Of the Sea-Tortoise.

Pliny calls it the *Sea-mouse*; the Greek *Chelodras*; the German and Flemish Fishiers, the Souldier, because it beares a

shield, and helmet; and *Barchora*, and of old *Zytyron*, that, or such another with rugged, hard armed-head, and a buckler hanging at the neck. It resembles the Land-Tortoise; if you except the bone, and bignes. In stead of teeth it hath a fete so hard, it breaks asunder the thickest staffe with one stroke. The snout brims seeme like teeth. The eyes sparkle from farre; the balls being exceeding bright, and glittering. The feet like wings, wherewith they swim as with oars; turn him on his back, and cut him up crosse, taking away the shell, you see a peritonæan membrane covering all the fore-parts from the throat to the secrets, tied to the shell by fleshy strings, especially by the breast. Kill it hath none, nor blind gut, but slender bowells from above downwards, contrary to other fourfooted beasts. Nay from the gullet top, which is two thumbs thick, it reaches to the beginning of the straight gut, and lessens all along; it hath also double tunicles, the outer finewy, the inner fleshy, and is hairy, and lumbar, and moyst, like a fat Cows right gut. In the beginning of the Oesophagus are many thwart prickles, bigger then in an Ox-tongue, which is strange, they serve happily to chew the grosse food they use to gobble in. The neck of the bladder answers the straight gut within, and have both but one outlet; the milt round as an egge, tied to the upper-gut: Reins plain, and long, as if made up of many small ones; heart-moyst full of intricate vessels in the entrance; the lappes large, blackish, dangling by a thin skin; lungs large coming down much lower then the heart; the neck bent with many muscles, and two very long plucking the head in to the shell. They live in salt water, and about Molurus, and live on small fish, shell-fish, and being brought a land they eat grass.

They at breeding-time lay about an hundred eggs on land, and hide them in a pit, and by night sit on them; & with their foot make a mark on the covered-place, to find it again. They plain the earth with their breast. In forty dayes they are hatched. In America are hide off above three hundred eggs in one hole, and are hatched by the Sun, with the damps sitting, so that an army seemes to be poured out at once. They sleep sometimes on land, but cannot live long there, like Sea-calves; they come by night on land, and feed greedily, and being full, and weary, they float on the water on their backs sleeping, and snorting. If they ly long, dried by the Sun-beams, and cannot get into the sleep, they dy. They thrust forth their heads, to take ayr, like Sea-calves, and are so bold, they dare sit on three men at once. Cut off their heads, they dy not presently, but shall bite, if you put your hand to them.

The Armenians, by the Patriark of Alexandria, are forbidden to eat them, on pain of excommunication. Between Spring, and fall, they are good meat. Some make pies of them. In Brasile they catch some that may suffice 80 men. They lard, and roast them, they taste like

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like veal. Their flesh and Frogs-flesh, help against Salamanders: the blood against shedding of hair, itch, and foreheads; but dried, and walit with breast-milk, men drop it into the ears for painethere. Some eat it with corne-meal, for the falling-sickness: some mixt the blood with vineger, wine, and barley-meal, and eat a pellet as big as a bean, morning, and evening, and after some dayes, at evening. It is taken in a castor-glistre, for the cramp, with the teeth long with the blood, you shall have no tooth-ache; and in barley-meal soked, and fried, it removes thornes of breath: the gall makes eyes clear, lessens scars, swellings of the amonds of the ears, squincies, and all forenes in the mouth: forenes creeping on by degrees, and the burning of the cods. Smeard on the nostrils, it is good for the falling sickness; and for mattery-ears, with snakes-slooughs, and vineger: Some adde ox-gall, and juice of tortoise-flesh, long boyl'd in wine. The gall with hony, is good for the eyes, and for the pin, and web, with the blood of the river-tortoise, and breast-milk: womens hair is paysond by the gall. Some drinke Salamanders, and the top: the brain with Saffian, and Egyptian-salt, makes a suppository for the stoppings of the mother. The eye-balls worn in gold, are good for dimnes of sight: they give the blood with wild-cymine, for viper-bites. The liver powder, in breast-milk kneaded with rain-bow ointment, and wine, purges a childe-bed-woman. Some give the eggs in an Epilepsie.

Of old, they trained their possis with the shells. Those of Taprobana lile, cover their houses with them. The Tortois-eaters use them for ships, and water-vessells, and tents: they with new-borne Babes in them. By Gambia River, they make shields of them: the Turks make Sword handles of the transparent shells. They are of a different bignes, and shape. In Taprobana one weighed an hundred and three pound. In the Red-Sea are shells as broad as a doore. In India some hold ten bushels. The Sea-tortoises are longer, the thore, rounder. Among the Trogodites are horned ones, the horns, as on a Harp, broad and loofe, that help their swimming: that kind is called *Cosium*, valt, but rarely found. The sharp Rocks of the Chelcnophagi fright them away: they frequent the Trogodites, that even worship them. Her-Barbarus bids us to call them *Oletea*, or Cavaleers, that use their horns, as spurs. One sort is covered as with a tanned hide, and is like a Lobster, the head, and feet gone: the back consists of six tablets joyned, and the tayl like that part of the harp, wherein the pegs tick: there are two sorts, the Brazilians call one *Tarucua*, with legs like wings; the fore-legs about a foot and half long, the tayl sharp, and conick, eyes great, and black; mouth toothless, and like a birds bill. I have had of them, whose shells were three foot long, and above two broad: the shells set into the ribs, on each side eight, the former shorter; middle-moist longer, the hindmoist also smaller.

They eat the eggs as flesh, they lay their eggs on the thore; digging a pit in the sand, and burying them. I have oft tractt them in their walke. Some I have had foure foot long, and three broad, of such a bulk, foure strong men could scarce stirre one. The shells as carved in diverse geometrical figures; some black, and glittering with yellow streaks, goodly to see too: others, otherwise shaped. The other sort the Portugees called *Jurata Cadago d'agua*, it is lesse then other Tortoises; the shell the upper-shell, is ten fingers long, and broad: the hollowneffe considered; the lower shell nine fingers long, foure and an half broad, and flat. The upper hath an crooked long-square shape. It can hide it self under the shell, and thrust out the head three fingers; the head is three fingers thick, and longish: the nose rising, and pointed, mouth wide, eyes blackish, balls cele-black: on the feet are foure very long black nails: the tayl short, and copped; the skinn rugged, and scaly: the upper-shell dusky, the undermoist yellowish: they lay roundish eggs, half as big as Hen-eggs, white-shelled, they taste well fried. Marckgrave ate often of them.

AN ADDITION.

Of certaine Outlandish Four-footed Creatures of a doubtfull kind.

CHAPTER I.

Of the *Tlacaxolotl*, the *Cabim*, and the *Sea-Jecker*.

HAVING through Gods grace finished the History of the Four-footed Beasts, as many forts as are, as yet known, I thought good to adde this appendix about forreigne doubtfull Creatures, which I am yet thinking to what head, or kind to referre. As first: The *Tlacaxolotl*, it is roundish-faced, bigger then a Bull, great-headed, long muzzle, broad eares, cruell teeth; faced almost like a man, whence it hath the name: the neck thick, the nails like the Bulls, but larger: the buttocks great, and broad, tayl thick and long; skin thick, hair yellowish, and bristly. It is seldom found, living among stones, and in desolate places. The Atzacamei, Tepotzonzotla, and Haquelagani, are not far from the Honduras. It feeds on Kacaotli, Quagachilli, and green-Hoali, in the wide fields, and fowen grounds; and where they are not, on leaves and shrubs. The flesh is eateable. It fears not the face of man; Arrows cannot pierce the hide; therefore they catch them in pitfalls, and holes covered with leaves, as the Indians doe Elephants.

The Cabim, or Sionion, or Thabal is bred in Java. It hath one strange vertue, if any carry with them the tip of the mouth thereof, wound him in a thousand places, he shall not bleed one drop. There have been many trials of it, and it is famous, and well known; for

when

when Naodabegua Malacensis, an enemy of the Portugees, in a manfull fight against them, was at length overpowered, and wounded in many places, and fell, no blood started out of the widest wounds; after in rising him, as they plucked from his arme a gold arm-let (strange to say) the blood with his life gushed all out suddenly, as out of a broken vessell, which they being astonish'd to see, they understood by other captives that in that arm-let was clos'd a Cabins mouth, that is so potent in stanching of blood.

As for the Maripetum, Aloysius Almeida writes, and others affirme, (both with truth) that among the Japons in the Gorian kingdom is a wood wherein is bred a beast as big as a dog, short-legged, good to eat, gold-coloured, soft-haired. Growing old, it leaves the land, and takes the sea, and by degrees turns fish in a certain space, loosing his beafts shape, and that some have been taken not wholly transformed, the full time being not expired, one part beast, the other scaled, and fined.

CHAPTER II.

Of the Danta, and Cappa.

THe Danta, or Capa, or Tapirouffu, or Doucanar, resembles the Mule, having such ears, a Calves lips; the upper-lips hangs a handful over the lower, which he lifts up, when angry, in the rest like other beafts, but a Calfe most; he hath no harme. The hoof helps heart-pain, the skin makes an impenetrable target. It hath two stomachs, one receives the food, the other is found, none knows how, stuff with wood, and twigs. The use of this stomach is not known. Nature uses not to make any thing needlesse. The hunter must wound him afore he takes water, for there he bites dogs to death. Men have been taught breathing a vein from him, for he, his blood is rank, and he even swells, lets himself blood on the inside of the thighs with a splinter of a reed, as the Sea-horse doth. He is reddish-haired, and that hanging down, and resembles a Cow in bulk, and shape. But that he is not horned, and hath a short neck, and long dangling ears, by his dry, and slender legs, whole hoof, a man may take him to be of the breed of the Cow, or Affe, yet differs much from both, having a very short tail, (though in America many beafts are bred, without tails) and hath much keener teeth, yet none need feare him, he trusting more in flight, then fight. The wilds shoot them, or catch them in pits, or grins, and have handsome devices to hunt them. They value him highly for his skin, which they cut round, and lay a fanning to make targets as big as a reasonablen, which they use in warre, as being hardly to be pierced. I brought two of those shiels carefully into France; but returning, the famine was so fore, that all provisions being spent, we must eat apes, and parrets, and we were fain to fry those two targets, and other skins in the ship,

to eat. The flesh tastes like beef, especially the feet well boyled. These Dantes are in many parts of the continent. The Cappa is bigger then the Affe, black, shaggy, fierce, fatal to dogs, snapping them, as a Wolf a Lamb. The hoof is whole, like a French shoe, and sharp in the spur-place. He is affrayed of a man.

CHAPTER III.

Of the Howler, the Su, and Peva.

THe Howler is cunning, faining an infants cry in the beginning of the night at towns ends, and kills those that in pity run out to help upon hearing the mone. But now the towns-men are well warned, and goe forth armed with fire-brands. It is like a Hare-hound in shape, and bulk.

The Su, i. e. water, because living by rivers somewhat, is found among the Patagons. Some call it Succarath. It hath a fierce Lions looke, yet is bearded from the eare like a man, short-haired, the belly strutting out, lank flanked, the tail large and long, as a squirrells. The giantlike men there, the climate being not very hote, wear the skins, for which, when hunted they lay their young on their back, and cover them with their tail, and so run away, but are taken, whelps, and all in pits covered with boughs. Being fast in, for rage, or generosity, they kill their whelps, and cry hideously to fright the hunters; they shoot him dead with arrows, and flea him. Some faine that they in fondness carry their young to meadows, and there they dresse each other with garlands of faire sweet flowers.

The Peva is as big as a small Cat. Spying the Tiger, it traces him, ever barking to warn all creatures of the danger. Hence we see often, that they dy in the fields for hunger.

CHAPTER IV.

Of the stinking beast, the Graffa, and Caoch.

AMong the Chiribdes is a lean beast that voids serpents a cubit long. The Dominicans brought up one in their cell, and say that those serpents creep to the next wood, where they live a while. They caused it to be killed, because it stank worse then any carrion cast out on a dung-hill. It resembles a Fox in the muzzle, a Wolf in hair. I wonder not much at this beafts dung, when consider what worms children, and old folks commonly void.

The Graffa is found most on the Isle Zanibar. It is small-headed, and long-necked. The forehead are greatest. It is party-coloured, white and red, and marked with red-dose spots. It is a gentle beast.

The Caoch is thirty inches long, black-haired, the belly yellow, and shining. By night it faine a humane cry. Like the Sow, it eats unripe mayze.

And so much of the fourfooted Beasts. If any thing shall be farther discovered to me about them, I shall God willing add it.

AN

AN APPENDIX

PETER CASTELLUS

OF ROME

His discovery of the Sweet Hyæna, the Dam of the Zibeth, commonly called the Civet-cat.

CHAPTER I.



IT is well known how needfull serious, mature, and long deliberation is in the accurate search after difficult matters; and that the more judicious, and rationally any one is the easier is it for him to unlock secrets, to bring to light hidden things, and to climb otherwise in accessible heights. Whence it is, that when inquiry is made: *Whether the Hyæna of old be known to us, or no; and on the other side, whether the fruitfull Zibeth were known to the ancients, or no; it seems hard to many to resolve. We had need search diligently, relying more in judgement, and reason then sense to perfect our wished discovery.* Wherefore we take our rise from the manifold names of this beast, namely, *Civetta, or Sivetta*, whence *Zibeth*, and *Civet-cat*, and *Wiesel*, and *Zapetion*, and *Cadoleptus*, we stile it the *Odoriferous Hyæna*.

Zibeth is an Arabique name, read in divers significations. *Zibet* is a sweet-scented *Agalia* admistred in Physick to staunch blood, and against shedding-hair. It is called *Saderva* in Persian language; it is a black thing, wherewith they dy cloath in Haaman, or a black juice, an ingredient into sweet medicines. *Rafis* calls it *Serdra*, and *Scedgura*; others, *Secera*. The Arabians, *Galia*, and *Agalia*, whence the compositions *Gallia Moschata*, *Gallia Alephangina*, and *Sebellina*, &c. so that a sweet pit is, called by some the Arabian Beasts sweat. *Serapions Galia*, is the juice of an herb, *Zebeth*, when the beast first obtained the name *Zibet*, and corruptly *Civetta*. *Zebet Alabar* is sec-some, and not unfitly applied figuratively to this, *Zibeth* being taken when the beast is angry, and fones.

He may be like a wild Cat in head, otherwise very unlike. Others call it a Cat; we rather the Sweet-Hyæna.

CHAPTER II.

Whether the Civetta be the ancient Pard, or Panther, or no.

ARISTOTLE demands, why other beafts yield not a sweet sent as well as the Pardal, or Panther, that thereby entices other beafts to him; no other, or

rarely, but hee, sending sweet, unless by chance, having eat some sweet thing, unlesse it is, that man is weaker of sent then other creatures, and knows not sent. Pliny saide, all beafts are strangely allured by this sent, but frightened by the mihihen head, which hee therefore Arist. hides. Aristotle saith, the Panther knows, that he smells so sweet; when he wants meat, he skulks in fruitfull or leavy shady thickets; then fawns, and goats, &c. invited by his fragrant sent draw neare, and become a prey to him. The Panther, and Tiger have a peculiar kind of spots; the Panther hath small spots like egges set in white: But they are mistaken, who take him for the Civetta. Some deny the Panthers sending sweetly, only beafts follow him, but men smell no such sweetnes in him. But, to say truth, diverse beafts void sweet dung, that Aristotle, and his Scholler Theophrastus knew not off; as the *Cordylus* resembling the Crocodile, but lesse, and living only on land on sweet flowers; he is sought after for his sweet guts, called *Crocodilea*, or for his dung. Also wilde-yellow Mice, (that our boys play withall, called *Sorcinofcaroli*) voids dung like Musk. And so of some Serpents: And of the greater *Weezel*, that kills great Hens, (called *Marter Martorella*, and *Fovina*) and of some Baboons. The excrement of the *Gezella* is a Musk. And some insects handled smell sweet, as the flower *Dipcas*, or *Greece-Musk*. So that many beafts, beside the Panther, send forth fragrant smell, and the *Zibeth* among the rest. To let passe that needles quarrell between Cardan and Scaliger, above the smell of beafts, and natures effluys in their generation.

Some thinke the *Zivet* to be Plinies *Chaum*, Dale. in French *Raphium*, like a Wolf, spotted like the Panther, that Pompey shewed at Rome; but there is no mention of the sent. Nor is the *Civetta*, headed like the Wolf, and they differ also in the spots. Perhaps *Thoe* is put for *Chao*; the *Hart-wolf*, and seems to be our *Civet*. But of the *Thoe*, Plinius hath composed Greek verses, the summe whereof is: How shamefast is the *Thoe*, if hee but see a man; How true a friend is he to man, aiding him, if any beast assault him. The *Thoe* comes of an *Hyæna*, and a *Wolf*.

CHAPTER III.

*Whether the Hyæna was known of old.*Oliber.
1.2.c.12.

Arist.

Plin. 1.28.
c.6.Æli. 1.6.
c.22.
Cardan.
1.10. de
fide. fer.
Arist. de
g. n. ani.
1.3. c.6.
Et K. A.
1.6. c.132.

Exer. 117.

Gelsner.
B. 1809.
Christus.
Arist.
Solin.
Ælian.Sol.
Ex. 211.
p.2.

Bellon.

Bellonius saith, yea; though the ancients observed not the sweet excrement of the Civetta; see thence the shape is the same with the old Hyæna, of the colour of the Wolf, but slaggier, and long-mained, with black spots, two under the eyes, the feet black-haired; thighs spotted, the tail very long, black above, with white spots beneath; on the neck, and ridge of the back black-haired, which, when he is angry, start up as Swines bristles: whence the fish *Glants* is called an Hyæna. Besides all old writers call the Hyæna a wilde Savage beast, that the Panthers strangely dread, and dare not stand its, but fly, nor dare come near a piece of the skin; may, hang up the skins over against each other, the Panthers hair falls off. Diverse write of this enmity, and that the Civet-cat is untameable. The best reason is, that the Hyæna of old is said (as by Ovid, and Pliny) yearly to change sex, and to gender with a male; which though it be false, and disavowed. By Aristotles yet there is a vessel in the Hyænam, that makes the heedles think it Epicene, or double-sexed. He is genitaled as wolves, and dogs; and that other passage is but for the excrements. And there is a female Hyæna, and under the tail of both is a streak, but it is seen more in the males, which are oftner taken than the females.

On the other side, Scaliger derides those that think the Hyæna, and Zivet to be the same, and many others confute that opinion; many things being said of the Hyæna, that fit not our Civet-cat. As first, a hard skinned, and a main, and neck, that are not the Civetta. Besides that there is no gum in the mouth, and but one tooth, or one bone all along, shutting like a box, but the Zivet hath many teeth.

And some write, that the Hyæna fains a mans voyce, and learns Shepherds names, to entrap them; and imitates mans vomiting, to entice and catch dogs. But none of these are, as yet observed in the tamest Civet-cat. But Bellonius might easily confute all this: saying that those things are falsely ascribed to the Hyæna, as the stiffness of neck to the Lion by Aristotles; and that Solinus speaks not of the Hyæna, but of the Crocuta, gendered between the Hyæna, and Lioness. That those passages are rather to be admired, then beleevd, as denied and confuted by some writers, and in silence passed by others. Adde, that the Hyæna is so far from being untameable, that Niculus Ancisa, Marques of Mantuaes bastard son, carried one on his shoulders. And a Florentine Consul at Alexandria, had a Civet-cat, that tooke man by the nose, eares, and lips, without harm, playing with them. But these are but toies, for this is by nature wilde, but

may be tamed, especially the female.

And for that above the mane, Bellonius might probably answer, that the Hyæna is as big as a Wolf, yet but two handfulls high, and the mane is longer then the other hair; and may hang to the ground; as wee see in Swine, the bristles on the back are longer then other hair; and so in our Civetta you may say, why then did not Aristotles rather liken the Hyænaes mane to the Swines bristled crest, then the Horses mane: I answer, that perhaps he took his description from some Indian Anthour, that had seen a Horse, but not a Swine; for it is not certain, that such Swine as ours are in India; so that Aristotles changed not his expression about the mane. Besides Scaliger gathers out of Aristotles, that the place of the genitals of the Hyæna, and Civet is diverse. And Faber findes a contradiction in Scaliger, *Ex. 217. Cardan. p. 7.* But truth is, either Aristotles was deceived by a false relation, or some fault is in the text; or he is not to be understood literally, and strictly; but thus it may be taken, that the Hyæna hath a streak behind, but no passage, but the Civet hath two passages, and hollows; one wherein the Civet is gathered. But Busbequius saith, he saw two Hyænaes at Constantinople, a little lower, but as long as a wolf, skind like the wolf, but rougher haired, thicker, and spotted with black; the head huge, close to the back-bone, without turning; joynts, that without turning the whole body about, they could not looke behind them: and that in Galatia are very many, found easily out by their gathering of carcase-bones, mens, and others, to their den. And Jo. Leo saith, he hath hands like a man, and delights much in humane carcases, that he digs out of their graves; that they are but silly, and are enticed out of their holes by singing, or a drum, which they love to listen too, and so are killed. Yet it is doubtful, whether this be the right Hyæna, having no mane, nor genitals, nor qualities ascribed of old to them, as if it were a mischievous, and subtle beast; that in Africa destroyes many wilde Asies, certain males domineering over flocks of females, jealous of corivals, guarding their females great with young; guelching their male-brood with their teeth, seeking out the females haunt, big with young, and being extremely lustfull. Herein like our Civetta, whose Civet makes not themselves only prove to lust, but mankind also, if annoiined with it. Referre hither Philes his Greek verses of the propertie of beasts, and of the Hyæna, no way agreeing to the Ziber-cat; (Chap. 43. of the Land, and Sea-Hyæna) the summe is, that the Hyæna changes Sexes, finding a man asleep, puts the right hand to his nostrils, to make his sleep sounder, lays the earth that was under his head on his throat, and with embraces throttles him sleeping. And the finnes of a Sea-Hyænaes right-side with a touch, provoke sleep, stupifise, and bring terrible dreams. The Hyæna deceives, and devours dogs, amazing them with

Arist.
H. A.
1.8. c.5.In 117.
M. u.
Ovid.
Faber.

Novi 33.

Plin. 13.
c.3.

St.

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the shadow by Moon-shine. Ælian relates the like, 1.6. c. 14. and 1.15. de An. c. 14. other fabulous stories; as about the Hyænaes hornes, which P. Cilius hath past over in his translation; and Gelsner confuted as ridiculous. However many things noted in the Hyæna, are found in the Civetta.

CHAPTER IV.

Under what kinde of Beasts the Civetta is to be reckoned.

Since it is cleare by what hath been said, that it is neither the ancient Panther, nor Plinies Chaus, nor the true Hyæna, wee may now fitly inquire, to what kind it is to be referred. It seemes to many to be a wilde Cat; and indeed in face it resembles one, having such long hairs on the beard, and three long ones on the cheek as the cat hath, otherwise they are nothing alike, not in skinned; for the Cats is smooth, the Civets rough, the hair very long, and thick, nor nayle, for the Cats claws are crooked, the Civets blunts, nor genitals, nor shape; this being liker a dog, or wolf, then a cat, being long, not round-mouthed. It is wilde, sharp-toothed, but unlike a cat, greater off then a Fox, unlike in head, neck, feet, and other parts; long-snouted as a Badger, long-bodied, the jaws below white, and the beard, the feet black, the belly-sides bright, the back dark-ash with black spots, and toothed more like a dog, then a cat. I indeede referre it to the Hyænaes, and these to the generall kinde, comprehending Wolves, Dogs, Foxes, and other beasts that prey on flesh. Now there are diverse kinds of Hyænaes.

The Thoes is genered between the Hyæna, and the Wolf. But I say there is a sweet Hyæna, and one that hath no fent. The sweet one is either the Arabian, and Eastern, or the Western, and American one. The other fort is, that the ancients write off, which perhaps is also twofold, since that Busbequius writes of wants many markes, described of old, and seems to be an Arabian Wolf.

But the sweet Hyænaes, Arabian, and American breed, Zibeth, or Civet; but differ somewhat in shape.

The American hath a slender-copped head, liker a dogs then a cats, reddish. Ringlets are about the eyes, that are not fierce, nor great, but whitish. The head ash-coloured, with scarce any hairs on the beard, the neck longer then the Tigers, or Catpards, beautifull with black, and white wreaths, like bracelets painted; from the head to the back on the neck are such coloured streaks; and another on the back from the neck to the tail, blackish, and hairy. Handfomly set off toward the tail by the streak with blackish, round, oval spots in order on a bright ash-colour. The uppermost nearer the backe are greater, the middlemost lesse, the lowest by little, and little lessning to nothing.

The tale streak, and so partly-coloured, and long, under the tail are visibly three passages, whereof one is the Civet-bag; the middlemost seems greatest. But the African sweet Hyæna, our Civetta is liker a wolf then a cat; long-headed, sharp-muzzled, toothed as a dog; two handfulls high, as I who dissected it, found it; and as long from the shoulders to the tail, and the tail as long as the whole body, the neck above half a palm long. The beast seeme to stoop. The length of the head was double to the breathe. On the beard, and cheeks grew hard hairs, white and long as on Cats; the muzzle bald, nostrills blackish, black spots under the eyes, the eyes glistering, and reddish.

But Columa saw at Fabers, saw one with chefnuts-brown eyes, mixt with yellow, and dull, heavy, and down cast. But out of the eyes of our dead one, were pulled gems as big as a drie peas, round, and angled, like christall, which I yet keepe; which confirme mee in naming it an Hyæna, since others speak of such in the Hyænaes eyes, that put under a mans tongue make him prophesie; (if you will believe it) I say not these are true gems, for they hold their firmnes, and cristalline transparency, but two, or three dayes, and then grow dimme, and are cut into bits three, or foure like snails-shells. Some have indeed put the question, why Cats, Hyænaes and Bats, see clearly by night. Besides the Civets-eares are little, round, and haired as a Badgers. The body is whitish, and ash as a wolves, sprinkled with black spots, the feet but little, and short, and black-haired; foure toes on a foot, and a small thumb inward, as on a cat. The nails, as the dogs, black, short, thick, and blunt, not as claws. Next under the tayl is the excrement-passage; then the testicles, then the Civet-bag, &c. In the figure wee have printed all accurately, according to their naturall proportion. The Civet-bag lies between the genital, and stones, which are large, these I cut out, and found them fentles, the feed-vessells were very thick; below was a small bladder. The whole genital is hide within the body, as in cats, while the beast is quiet, only a kernell seen; but in the carcase it hangs quite out. The hair of the whole body is long, rough, bristled, as a Boars, and on the neck, and by the back-bone black, very long, and thicker, which starts upright, as on the Swine, when the beast is angry. The tail is very long, and pretty hairy, reaching to the ground, and marked with various spots.

Hence we conclude these to be Hyænaes. Perhaps the Bever may be referred to this kinde, it having about the same place a bladder, which opened, a kinde of a hony-moisture drops out.

CHAPTER V.

Where the Hyænas are bred.

L.4. **H**erodotus, Pliny, and Solinus write that many of them are bred in Africa. But our sweet Hyæna is called the Syrian Cat; they are brought out of Syria. Some are sent from Spain. The Portuguese bring them out of the Indies. A Lituian Apothecary sent a Zibeth-bag, and an Elks-hoof to Rome to Henry Convisus, writing that they were the fruits of his country, so that I gueſſe they are bred also in those cold Regions.

The American Zibeth is bred in many parts there, as also in East-India in Bengala, Ceilan, Sumatra, Java the greater, and leſſe, in Maliput, and elsewhere.

And in new Spain, in Quatemala, Campege, Nikaragua, Vera Crux, Florida, and the great Ile S. Dominick, or Hispaniola, Cuba, Matolino, Guadalupe, and elsewhere.

In Peru is plenty, in Paraguay, Tucamam Chiraguas, S. Crux de la Sierra, Yungas, Andes, Chiachiapojas, Quizos, Timana, Novo Regno, and in all the Provinces bordering on the great river Maragoun, which are almost numberless hereabout reaching two thousand leagues. Many more of them are in Brazil, where the Civet trade is driven. They abound also in Guineæ, in the Provinces of Loango, Congo, Manicongo, about the rivers of Angola, even to Cafres, and to the Cape of good Hope, especially on the high, and vast mountains there, called the Craggy-pears, and on part of the hills of Cafres, called the Torea, or of the Moon, where so much Algalia is.

CHAPTER VI.

Of the Zibeth-veſſel, or Civet-bag.

Zibeth is gathered only out of one small part of the beast, we shall see whence. It is a foul mistake, that the Gazella voids Civet, as dung; nor comes it out the genitals, but it lies thereabout. To let passe Columna his discourse of the testicles (Epist. r. ad Fabrum.) It is clear, that the Civet in the males lies between the Genital, and the stones. The testicles are conspicuous in the males, and tane out, but ly hid within the females. In these between the anus, and the fecrets are swellings, are bagges framed by nature, wherein by little and little the Zibeth is gathered, and thence voided. And being but two, the unexperienced may mistake them for testicles, and some that have seen the beast often, much more those who never saw it afore; so hath Colozana mistaken. The Zibeth part at first sight seemes a feminine paffe, having a long streak, and thick lips, which feels as bigge as a small egge, gristly it is, and some-

what hard, which, if you open with your fingers a little, there shew themselves two very long holes like nostrills, hollow underneath, where are the seats of the Zibeth. These vessells if you squeeze out with your fingers they open themselves wide, and shew the hollownesse, which may well hold an almond kernell; in these bags is no pore, and no passage appears, but it being cut, I found a hardish body as big as an egge, feeling gristly, divided into two bags, as big as two Spanish olives, and those not at all gristly, but fleshy, stuffed with small, white, hard kernels, much harder then the stones; distinct they were those bags, but joynt with thin skins, or films, and the inner was common to both bags, which I keep still by me dried, which sent yet strongly of Civet, when the stone dried smell not all. And (which is strange) the beast being spent by a dropsy, and all the bowells putrified, and it stinking unſufferably as it was cut all over, only the Zibeth vessell ſcented wonderfully, and yet holds its fragrance.

CHAPTER VII.

Of the Beaver.

Since the History of the Castor, Fiber, or Beaver conduceth much to the knowledge of the kind, and quality of the sweet Hyæna; we say that the Beaver, both Hee, & Shee have in their privities certain receptacles, whereout, through the small bones, an hony moisture flows, which the Beaver useth to lick. The males have besides their testicles shut within under the skin fo, as you cannot touch them, as swine have, Rondeletius saith such bumps are also in Hares, whence the vulgar bruit of their double sex, and he writes the like of the Moschus, and the Beaver, that this hath two such swellings in the groyn, each in his thin skin as big as a Gooke-egge, between which are the privities. These swellings sweat out a fat moisture, which he licks, and sucks out, and after annoints therewith all his bodies as far as he can reach. These are not testicles, for they are there besides, and these have no passage to convey, are send forth water. That liquor at first is like oyle, after it is of the colour of hony, and as thick. The like in the Hare (saith he) and the Moschus, whence a sweet substance flows. Nor are they to be heard, who take these swellings, for inflamed pulses, or hote matter from the navell. That the swelling is like a kernell, or testicle they know, who sophisticate musk, making it up round in such a shape, and calling it the Moschus-stone. But we know that the testicles ly so, that you cannot take them thence, and the beast live. So that many beasts, as the Hyæna, Zibeth, Castor, and Hare, and others carry sweet moisture in bags about the groyn, as among fishes, the Cuttle, the Calamary, and the purple fish.

We grant the Moschus to be a strange Indian

OF THE FOURFOOTED BEASTS.

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dian beast in Pegu, frequent with the Tumbasi, not unlike a three goat, great-bodied, called the Dorcas Moschus, the Indian Gazella; the wild Goat-Moschus, out of whose under-jaw stick tulles, as in swine, but when they tell, that when he hath lust, his navell swells, and apostumates; and he then refrains food, and walloweth on the ground, and delights in the tickling in rubbing the swelling against stones, and tree-stumps, and breaks it, and thence comes true musk; and that the same loſt on stones, and trees is by the sun, and air perfected, and all ill in it disperſt, and that this is the best musk. That the beast killed, the hunters, cut a piece off, with the skin, squeeze out the blood, gather it, dry it, keep it in bottles made of the skin of the same beast, or dry the blood, and put off to chapsmen that stuffe for pure musk, &c. However it be these are by these mens relations of a like nature, and the musk comes not from an apostume in the Moschus, but out of a peculiar part determined by nature.

CHAPTER VIII.

What the Zibeth is.

All not agreed about the matter of this sweet called Zibeth, and Zibet, and Zapetion, and Algalia, and Civet, and by severall writers severally. Cardan is justly taxed by Scaliger for calling it feces, that distiched the beast, know better, nor assest I to those think it sweat, because (say they) it is most gathered from the beast, when tired, vexed, and sweating, and also under the hippes, armpes, neck and tail, for then all that sweat should be sweet; useless you call it sweat, because it sweats out of a gristly, spongy part through invisible pores into the bags, but then it is not simply sweat, but the sweat of the Zibeth part, nor do those that call it excrement descend to a description of the particular nature of it: for there is excrement profitable, as feed-milk; and useless, as snout, sweat, filth, &c. Corruption this is not, there being no sore. I take it to be an excrement proper to that kernell substance of the forelaid bags, that breeds by its innate, proper power such a thing, as the stomach makes chyle, the liver blood, breasts milke, testicles seed, ears, ear-wax, the cuttle fish inke, the viper poyson in the teeth, and the like, as the Beaver, and Moschus, &c. breed on hony, sweet excrement. But I dare not determine, whether it be the usefull, or useless to the sweet part, or the breeder. But we may gueſſe, that it is unprofitable to the beast, it seeming burdensome to it, whereof it would ease it self, and the female, when tame, seems to delight, that the Civet with an eare-pick should be taken out of her. On the other side the sweetnesse of the sent, shews it is no preternatural rottenness, but an exact concoction, and natures master-piece; and it puts forth it self naturally and copiously after that part

hath concocted it, as milk, &c. Usefull no question it is, nature gave not those bags such a vertue to breed such a sweet in vain. But to what purpose? Seed begets milk-nourishes; whereto serves this? whether to provoke the beast to generation; as wee find Musk awakes lust, and the Castors-hony; or whether to allure other beasts to him; as was said of the Panther. Wee shall praise his wit, who shall suggest other, or better reasons.

CHAPTER IX.

Of the collecting, and electing of Civet.

When the vessells are full of Civet, the beast it self is unquiet, and seeks to disburthen it self. The eagerness of it seemes to swell, vex, and prick, and provoke evacuation; and the tame oves take delight to have the bags emptied with an eare-pick. The Blacks, or Moors, search after old, and dry stumps of trees, and mark the large and oyle spots, and take thence a round substance cleaving there as big or small as a cheſnut, they let it boyl out in water, and take that swimmes, being fat, and oyle, and pour it into clean pots, and keep it for their use, and this is the pureſt Civet. For on those trees the beast rubs, and leaves it, when the bags are full, and urge him. And keep them tame in a cellar, when the Civet abounds in the bags, it troubles them, and they cannot stand still, but run up, and down, and rub against the walles, to ease themselves of it, and so it is loſt. The servants of D. Barnardine of Corduba fetch the Civet out thus: One drew the chain, wherein the Zibet was tied, another held the hind-legs, a third chafed the bagges, and with a large eare-pick fetched the Civet clean out, scraping on all sides, then wiped the short-hair of both bags with cotton wool, and after six times fifty emptying the bags they gather Civet enough to fill a cheſnut-shell. In summer it is moyster, and every two dayes in warme weather they gathered half an ounce, but in winter they got it scarce once a week, nor do much, the female yielded leſſe, but without striving.

The Civet seems fat, and unctuous, and swims at top in water, and levers it self from all other things: it is as hony, or butter, it is thinner in summer, at first gathering, but after thickens. I scroched out of a dead one above two drams of Civet, whitish, and fast as hony. Scaliger &c. likens it to black sape, but he saw only the outside, and that old. Some say, the fresh is ugly, and stinking, and after comes to smell sweet, contrary to amber, and musk, which are the newer the better. Donatus (out of Eremi. l. i. Antidotary, c. 10.) saith the stayler is best, and of a Lion, and pabish-colour, fat, thin, thickening in time, being laid on a paper, and chafed

P 3 melts,

J.A. de
Theriac.
c.11.

melts, and dissolves it from the adulterate, false Civet. It is said the Civet of the male is whitish, that of the female Lion-coloured at first after a weak, but white also at first gathering. An ounce of the females is worth four of the males. They mix six ounces of this with one of that, and so it is perfect; the males alone is little worth.

How so-
phistica-
ted.

It is many ways sophisticated, as mixed with butter, or the soft pulp of larger raisins, or Zibibus, and with rank fat, or butter, or cheese, put a little in a silver spoon on embers with those foresaid things, it renders them sweet like it. The sweetest Civet is right, and best. It is said that the right, if put into seething water, floats at top, and all heterogeneous stuffs sink from it; but we have found in some the rank butter, so that it seems the separation is not so perfect. The best Civet gains a colour, as a dusky web, but at the bottom waxes white; the sophisticated is of the same colour at bottom, and top. It is to be kept only in glass.

Right.

CHAPTER X.

Of the use, and power of Civet.

Alexius
Rosellius.

Powder.

It hath a double use, the Druggists regard only the sent, Physicians the vertue. Druggists say a little Civet overcomes many sent in compositions, so that you shall smell only that simple powder of Civet, is made of Sugar-candy, and Civet beaten together to powder, which is kept in a glass-vial close shut. Some take egg-shells washed, and dried, and bruize them to a fine powder, and in each ounce put three caracks of Civet; a carack weighs four grains; or they take two ounce weight of prepared egg-shells, infusing them in Rose-water, musked ten, or twelve days, they dry, crumble, fears them, put an ounce of refined sugar to them, then put embers into a brasse mortor, till it be so hote, as you can endure to handle it, then wipe it, and put in the egg-dust, smooth it with the pestle, put to it four caracks of Civet, mingling it by degrees with the pestle end annointed, the space of an houre, then keep it in glass close shut, and sprinkle the powder on whitened sheets, shirts, and other garments.

Sope.

Some take the best ordinary sope, slice it small, dry it in the sun, or shade ten days, bruize, searse it, then add Civet-powder, and ball it with Rose-water.

Of Civet also are made oyls, ointments, and perfumes.

The ver-
tues.
F. Gre-
gory in
Faber.
Scribon.
Lang.
c.171.

The skin of the belly is souverain in all cold greifs. A bit of it worne on the stomach strenghtens it. The Guinee, and Brasil Blacks eat the flesh, though it be unfavoury, and hard of digestion to make them lusty. The Hyænaes skin is also good against the bite of a dog. In Candy a ship-wracked Barbarian being driven on shoar, that being elderly, and maintained on the publick purse, related that a piece of the Hyænaes skin tied in a cloth, and bound

about the left arme helped against bites, cramp, &c. It is said, shoes made of a Sea-calfs, or rather of an Hyænaes skin, drives away the foot-gout. It is good against the bite of a mad dog, if bound on. It is past belief that the Phocas, and Hyænaes skin make thunder proof, and that they carry them about in ships to that end. Surely Avicen knew Civet liavour under the name of Galia, and Algalia, which was not Gallia Moschata, for he speaks of simple medicines, not compounds. And Algalia is not Serapions Sederva, which is a cold juice of an herb, and astringent as Acacia. Besides the vertue is the same of Civet, with Avicenns Algalia, as to soften hard impostumes, and dissolved in Ben-oil, or Keiri, and dropped in, eases a fore ear; the sent helps epilepsy, enlivens, and asswages the cold sodain toxicates the brain in wine; the sent cheers the heart, and in suppositories is good for the mother, and against phlegma, and provoke terms, cleanses the mother, helps conception. So that Civet, Algalia, and Galia are all one, for all is but an Arabique article.

Some count Civet hot, and moist, others dry, some, a kin to Musk; but Avicen holds Musk hote, and dry in the second degree. But if it be a sweat, the Hyæna being very hote beasts, and that abounding in hot weather; and when the beast is heated by anger, or motion, it must needs be chollick, hot, and dry, and of a digestive nature.

But there is no certainty, because none know the tast of it. In all sweat is some salt, and when the beast sweats, the Civet hath some eagernes in it. It is certainly hot, dry, and harsh. Besides sweat digestes, and allays swellings, as Algalia. But Castor Durantes his medicine for the matrix, seeme to be made of the genitals. Lay but Civet on the hollow of the navell, it turns the mother. It is used also against the stoppings of the womb, and barrennes. Read *Red. à Castro l. 2. de mor. mul. c. 1.* The shape of it in the beast, speaks for what parts it is good. How it helps generation, *Red. à Fonseca consult. 10.* shews. And many write how usefull it is against all womb-griefs. Briefly, it easeth the Collick.

Wee read nothing in our late writers of oyl of the gall and fat of the Civet-cat, but among the ancients of the Hyæna, as in Galen *de comp. med. loc. c. 7. &c. Elian. H. A. l. 6. c. 46.* writes, that the gall kills the lvis. Galen, that the Hyænaes fat breeds hair, it being thin, and pearcing to the roots of the hair. The same doth the whole Hyæna, boyled in oyl, as the Fox. There are many vertues in Fox-oil, all which are found in Hyænas-oil. The live Hyæna boyld in oyl, makes a discussory oyl, excellent for the joynt-gout.

CHAPTER

CHAPTER XI.

Of the bones of the Civet-cat.

It remains now to treat of the Sceleton of this beast prepared by mee, which conduceth much to the discovery of it's nature; to know the place, seat, and posture of the bones, and to see wherein it agrees with, or differs from the Dogs, Wolfe, Fox, Cat, and other beasts.

When in all other beasts the number of the turning-joynts of the back-bone is not the same, in our sweet Hyæna were reckoned 49. but in the Sow, and Hedge-hogge but foure, in the Horle, and Camels fifteen, six in the neck, as in Dogs; in the breast twelf, after the usuall way; seven others on the back, as in the Dog. But the Hedge-hogge hath eight; the

Cony ten. Finally the tayl consists of foure and twenty small bones. In a Dog I told but fiftcen. In the jaws were six sharp cutters on each side, but very small, as in the Cat-pard, and in Dogs.

Next stand the dog-teeth, in bigneffe, and shape as the dogs: Then grinders on either side six; the first whereof next the grinders, but small, as the last, saving one, is the greatest of all. The shape of the whole seemed to resemble a dog, and such kind of beasts nearest. And so much briefly of the Anatomy. Let the reader excuse us, that wee give no account of the inwards, since such was the stink of the putrified bowells, that the offence so nau-seated, and turned the stomachs of my schollers then present, in Dr. Dominick Panarolus, who cut it up, and also in the bystanders, that it scarce suffered us to make that speedy dissection.

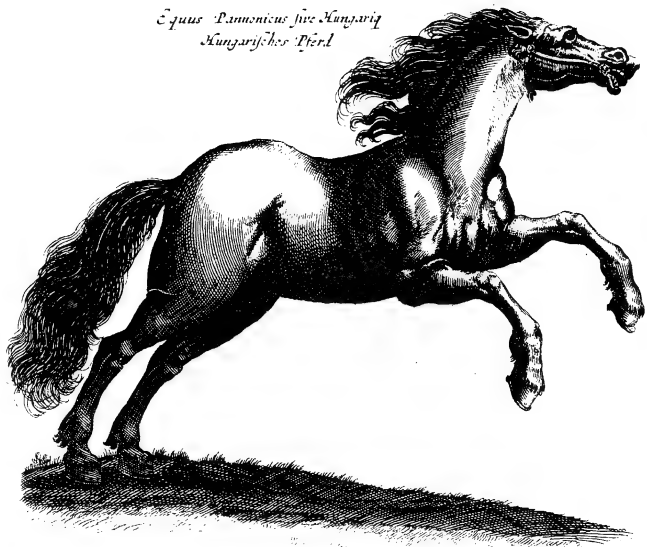
FINIS.



Equus Frisicus Frisch Pferd



*Equus Pannonicus sive Hungaricus
Hungarischer Pferd*



Tab. III

Equus

Pferd



Equus Ethiopius Ethiopisch Pferd



Tab. III

Equus Ferox



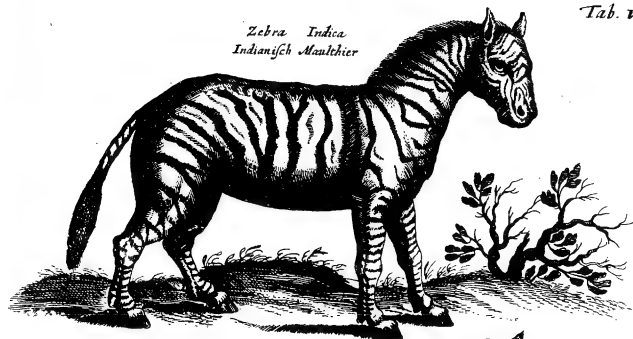
Cantherius

Wallach



Tab. V

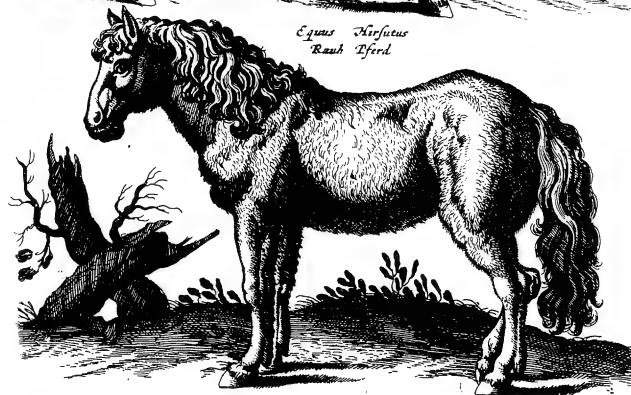
Zebra Indica
Indiansch Maultier

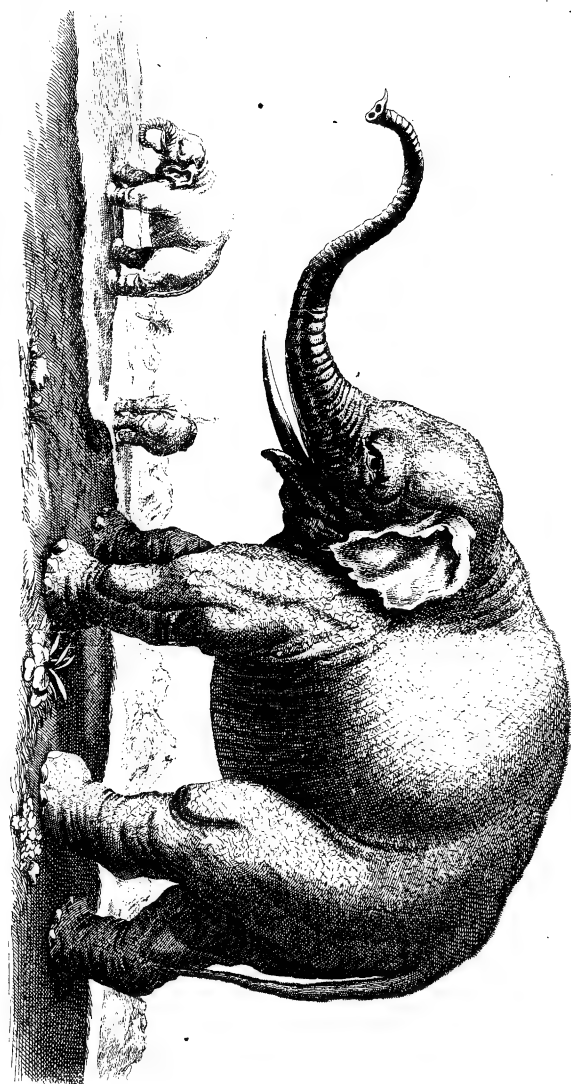
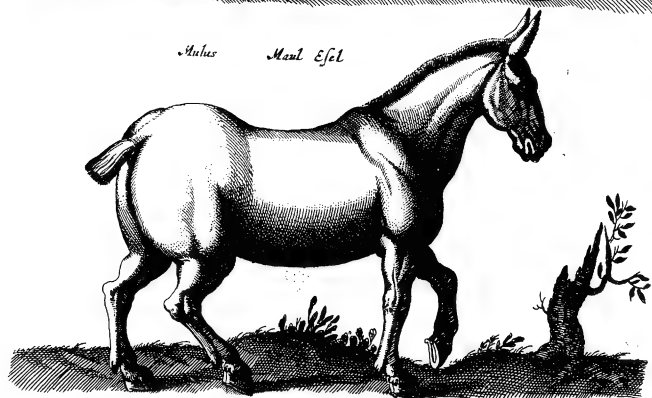
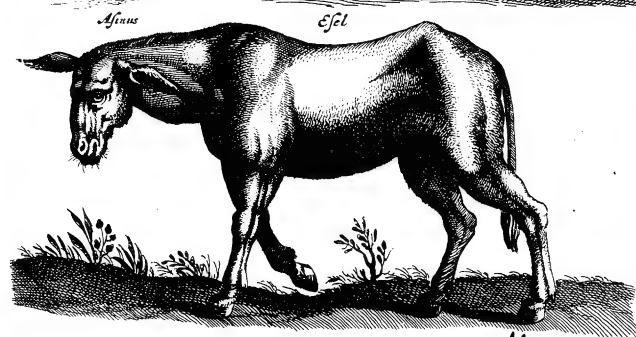
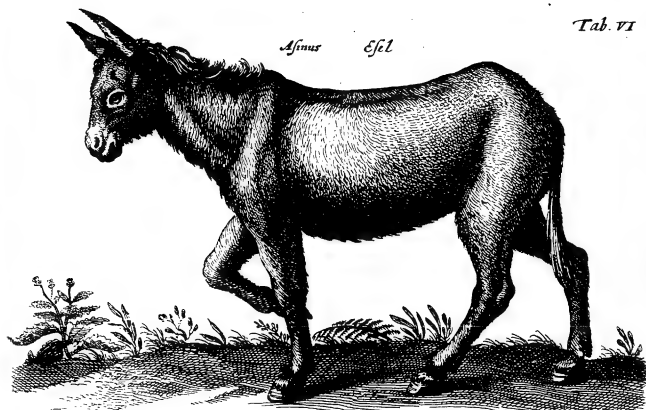


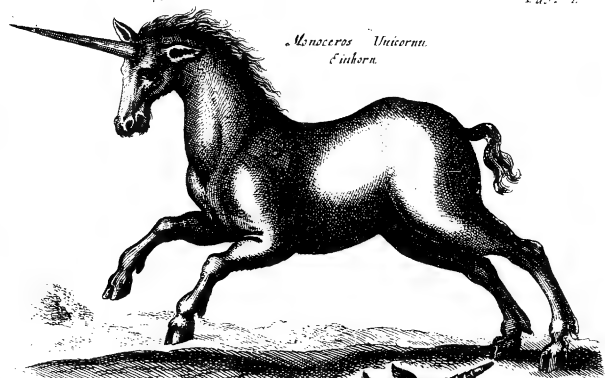
Equus Indicus
Indiansch Pferd



Equus Hirsutus
Rauh Pferd







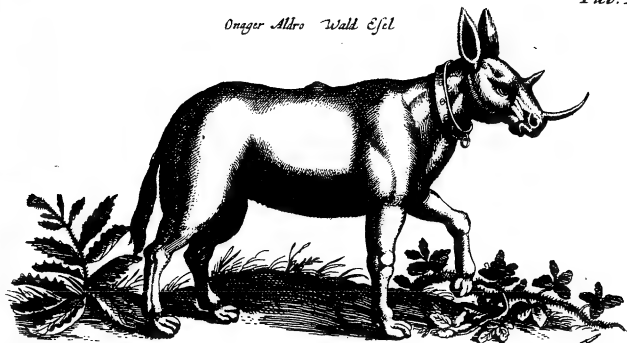
Monoceros Unicorn
Einhorn



Capricornus Maring
Meer Stembock



Monoceros Unicorn
Einhorn



Onager Altra Wald Esel



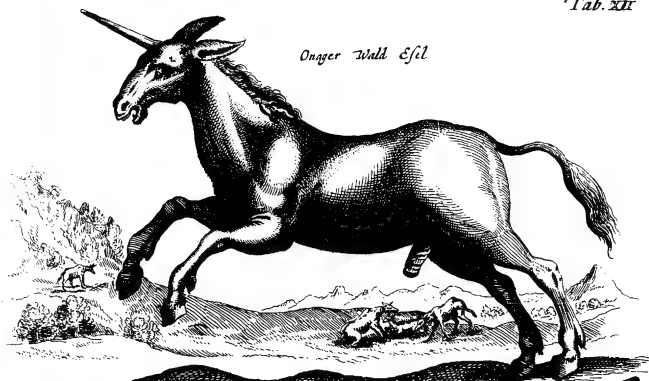
Monoceros seu Unicornus Tabatus
Einhorn mit mahnen



Monoceros seu Unicornus aliud
Einhorn mit mahnen ein andr art

Tab. XII

Onager Wald Esel



Lupus Marinus
Meer Wolf

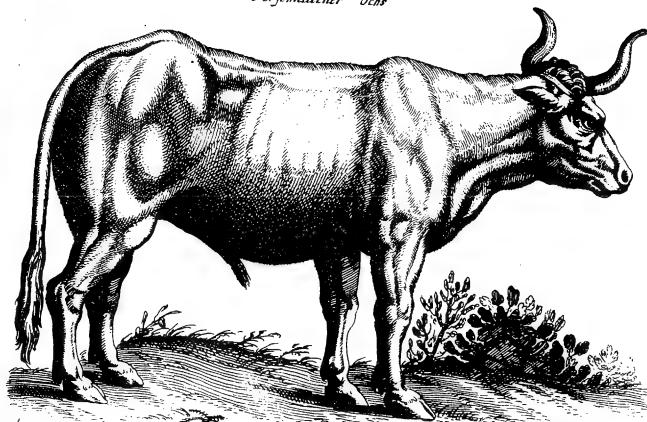


Capra Sylvestris wild Geiß art



Tab. XIII

Taurus Castratus Bos
Verfchnittener Ochs

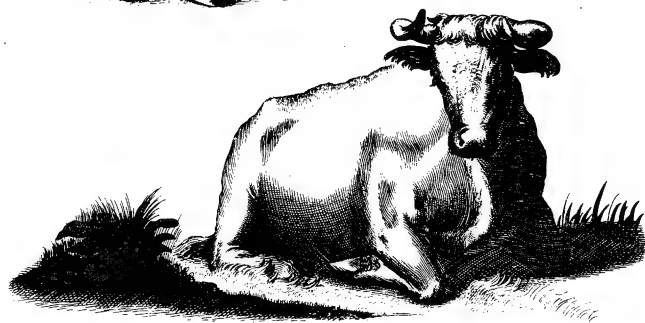
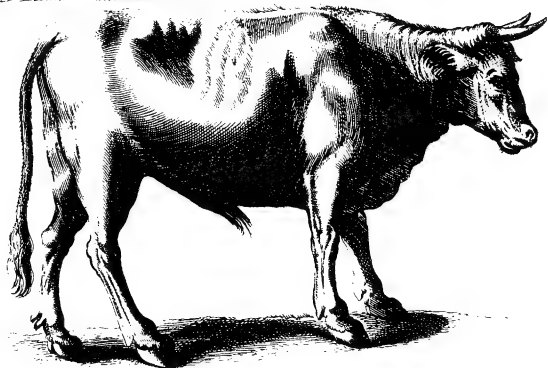
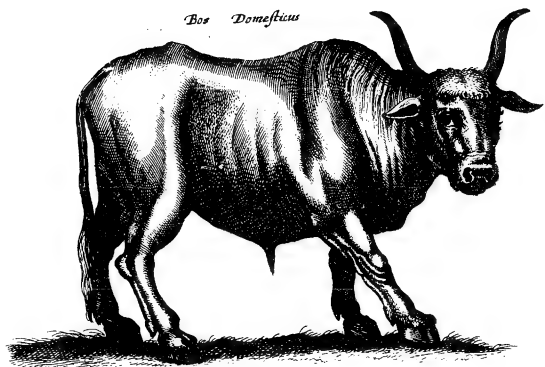


Kuh und Kalb



Tab. XIII

Bos Domesticus



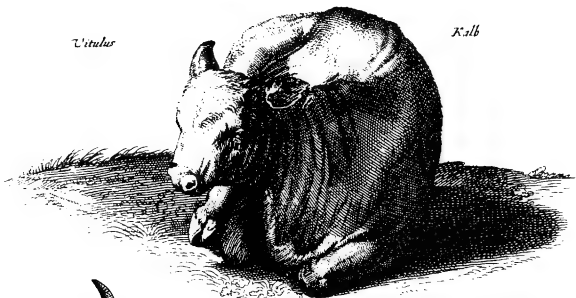
Tab. XV

*Bos Stier
Jünger Och*

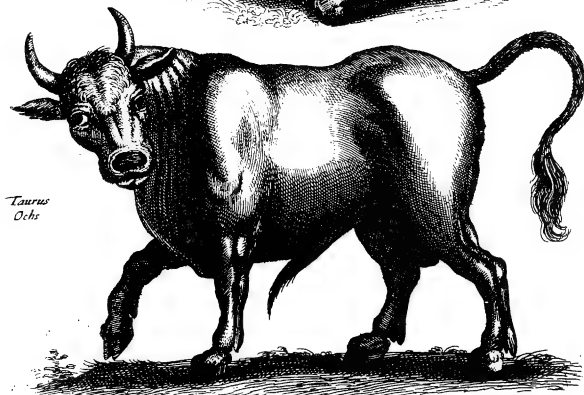


Urtier

Kalb



*Taurus
Ochs*



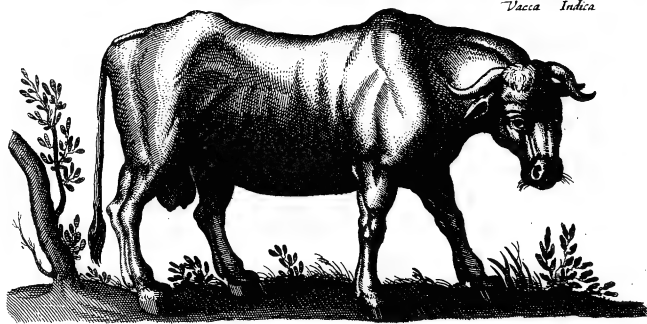
Bifon Wilder Ochs Wisent



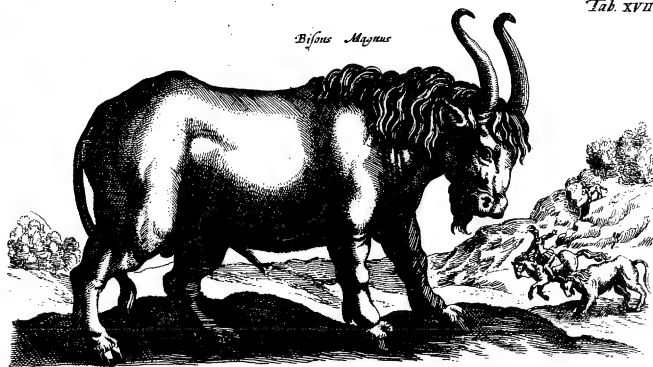
Bubalus Indicus



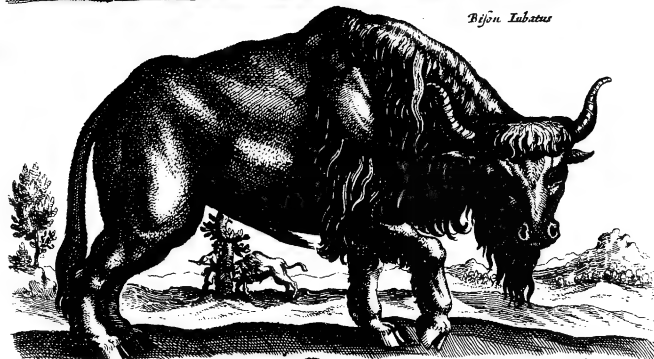
Vacca Indica



Bifon Magnus



Bifon Tubatus

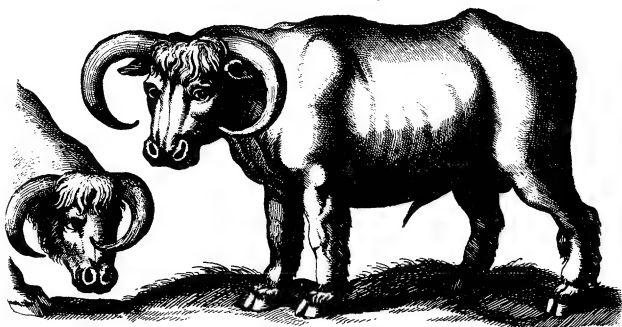


Locobarus Bifon

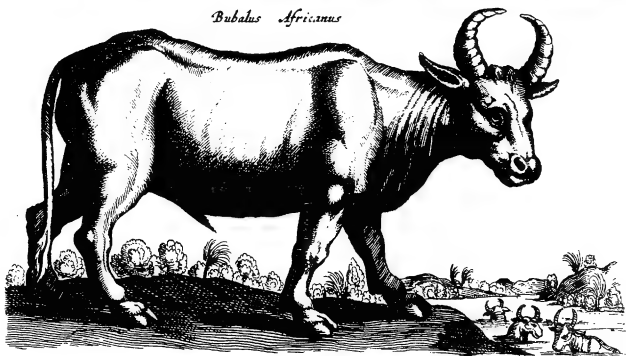


Bovajus Munster wild Ochsen geschlecht

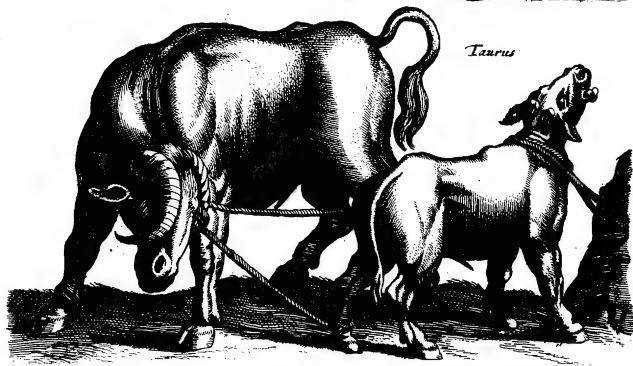
Tab. XVIII



Bubalus Africanus

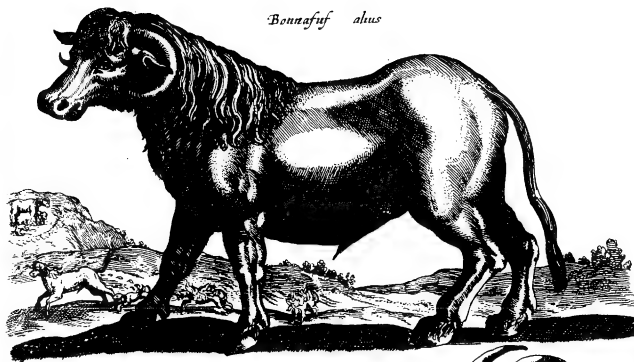


Taurus



Tab. XIX

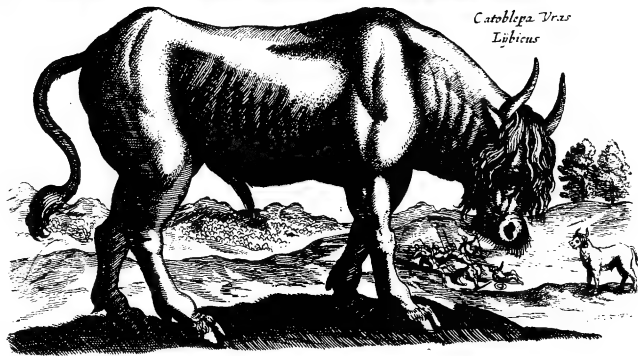
Bovajus albus



Urus Iubatus Gewohnter Auer Ochs

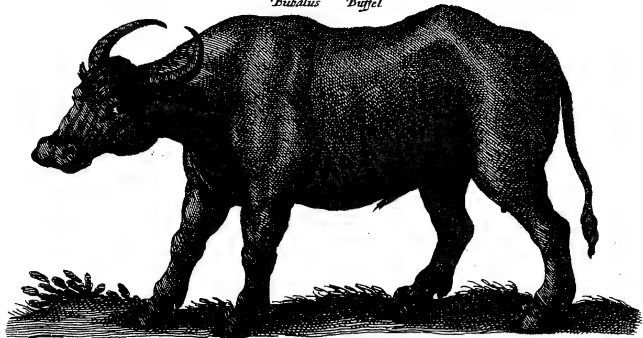


*Catoblepa Uras
Lybicus*

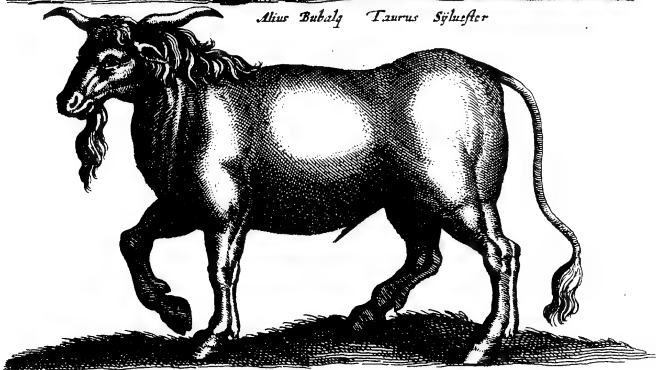


Bubalus *Buffel*

Tab. XX



Alus *Bubaly* *Taurus* *Sylvestris*

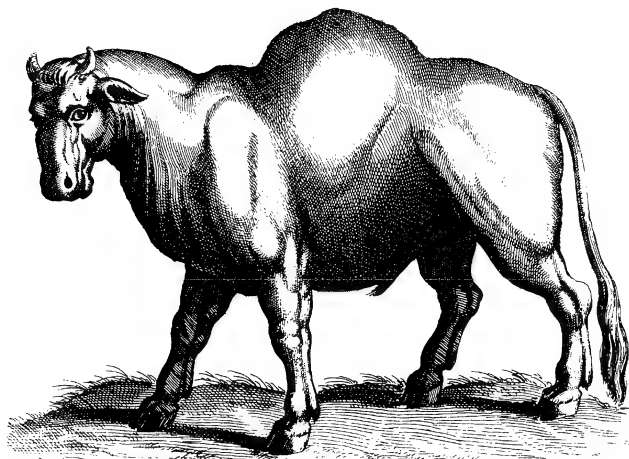


Urus *Auer* *Ochs*

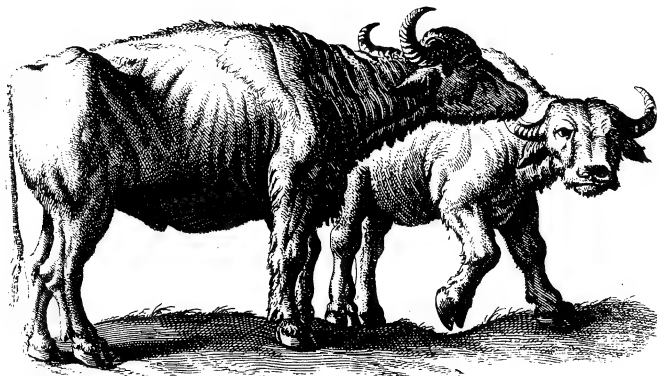


Bos *Syriacus*

Tab. XXI



Bubali *Indici* *Inde* *Buffel*

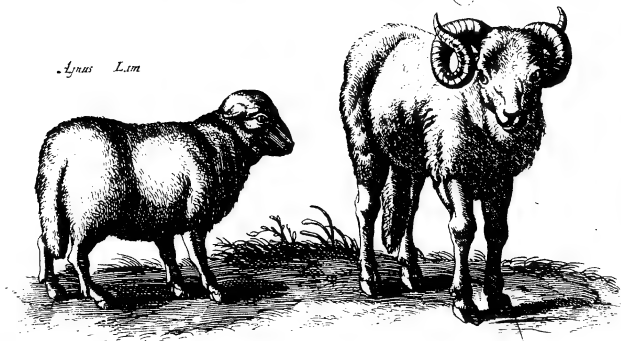


Aries *Wieder*

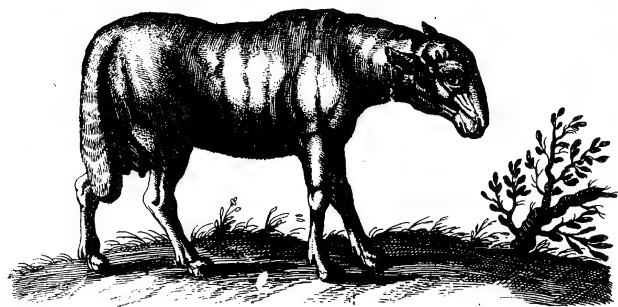


Verrex *Amel*

Agnus *Linn*



Ovis *Pergina*



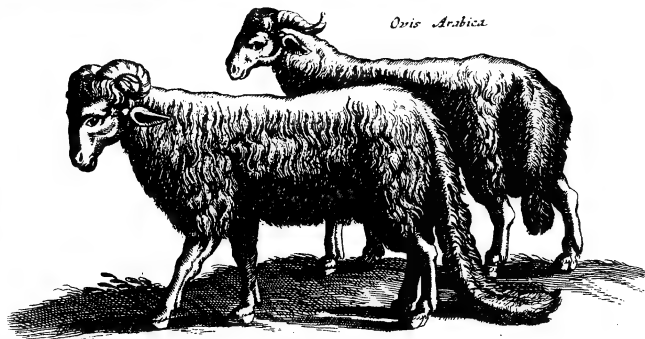
Verrex *aliud*



Verrex *aliud Pergina*

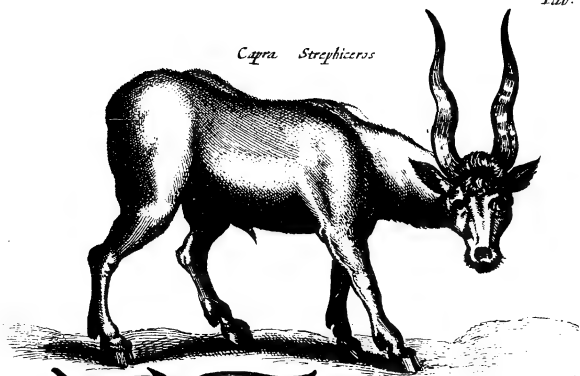


Ovis *Arabica*



Tab. XXIV

Capra Strophiceros



Eule



Alcora

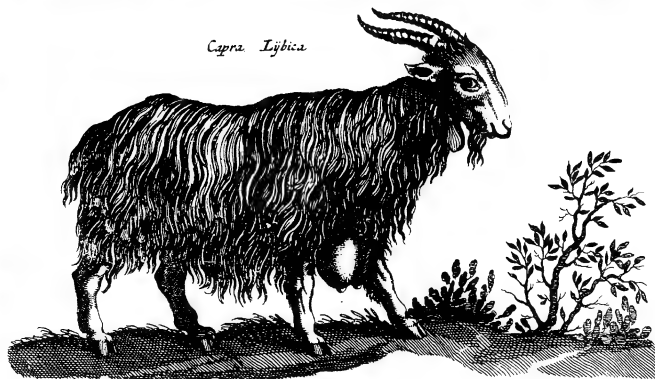


Tab. XXV

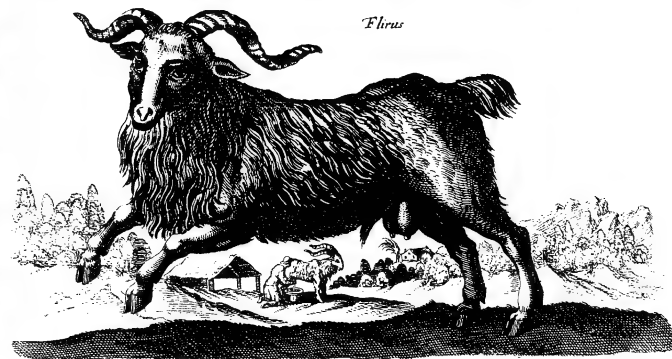
Ilex Steinbock



Capra Lybica

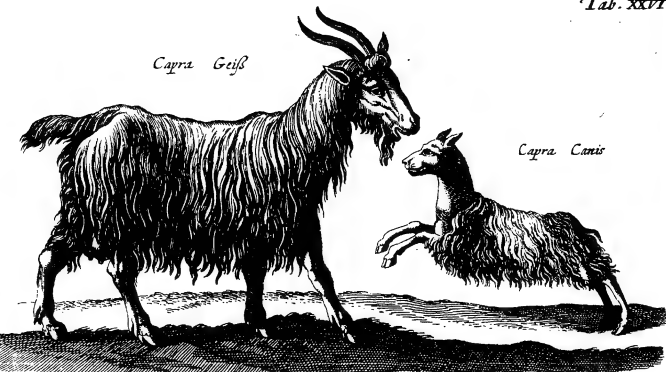


Flrus



Capra Geiß

Capra Canis



Capra Hispanica



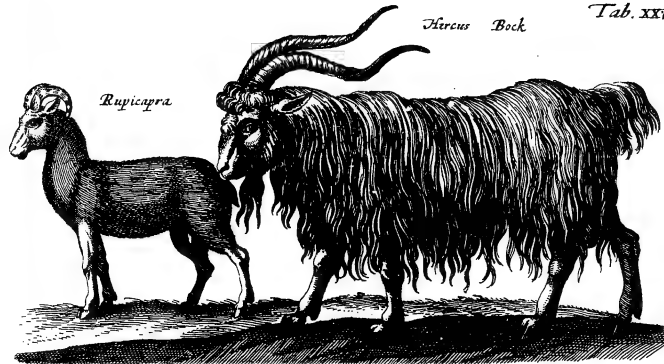
Capra Manbrin

Capra Manbrina



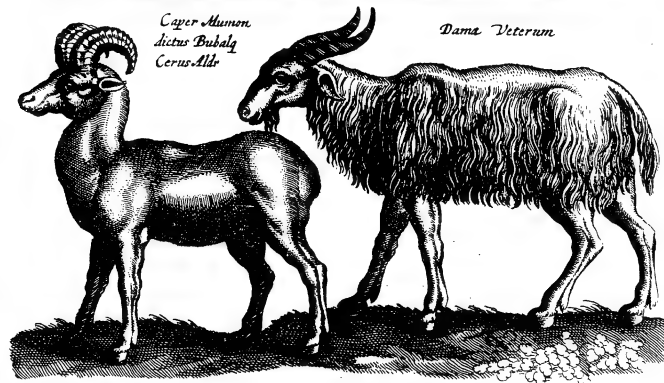
Hircus Bock

Rupicapra



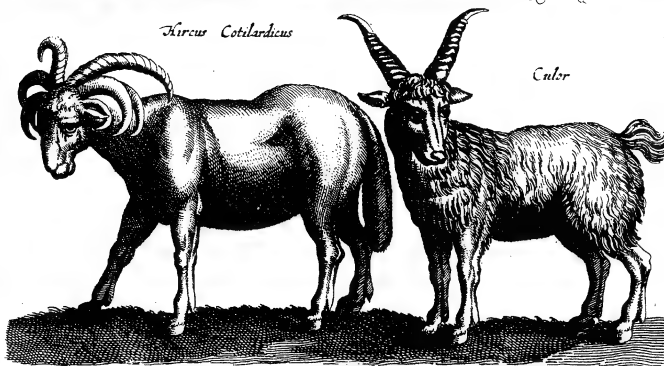
Capra Munon
dictus Bubalg
Cerus-Alle

Dama Veterum



Hircus Cotilardicus

Calor

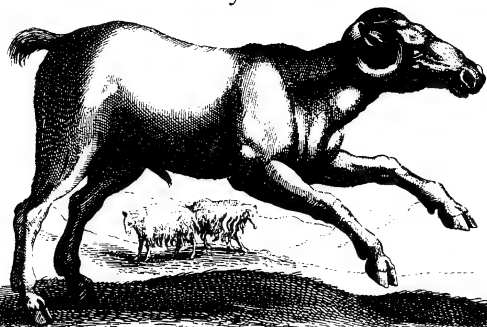


Ibex Syllagter Sardus

Tab. XXVIII



Musimona



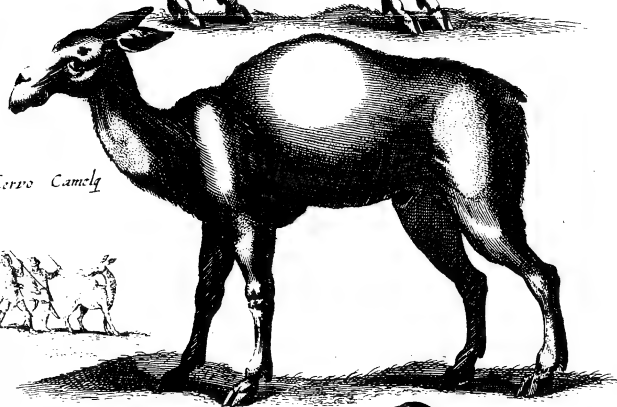
Traie Vol. Ibex



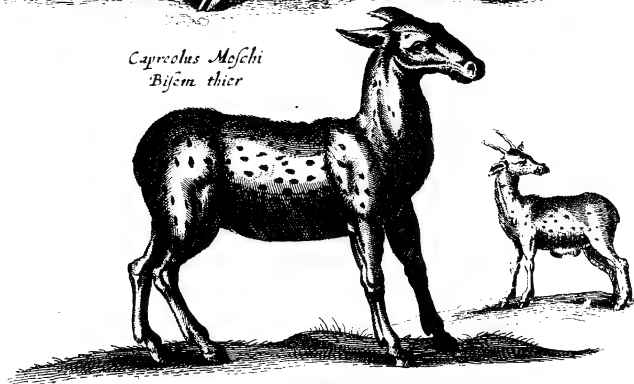
Gazella



Cerro Camely



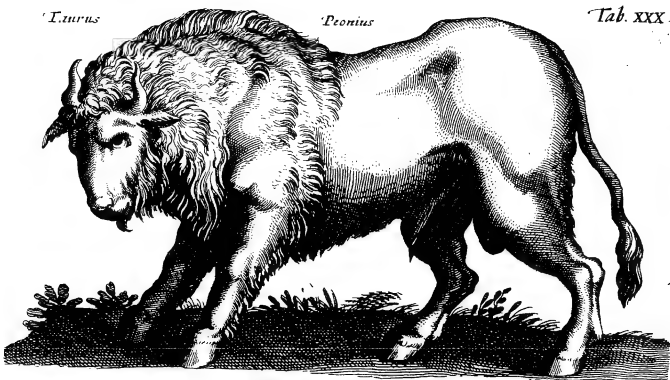
Capreolus Moschi
Bijem thier



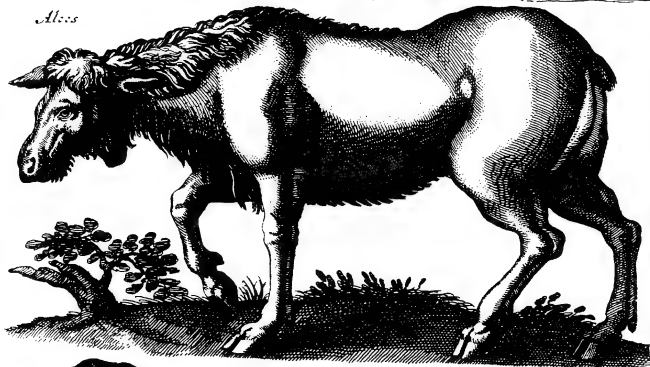
Taurus

Peonius

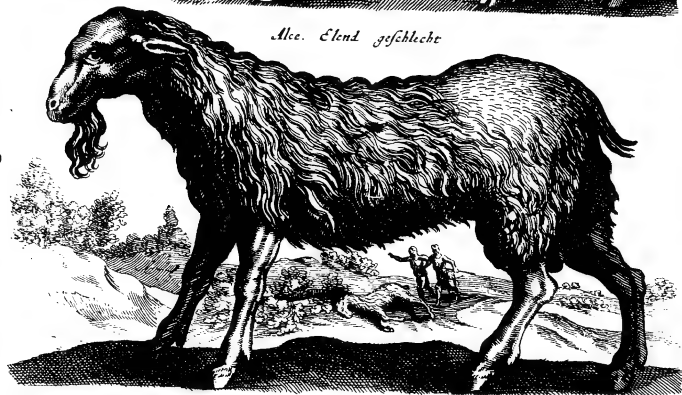
Tab. XXX



Alces



Alce. Elend. geflechte



Tab. XXXI

Dama Cervy

Damhirsch



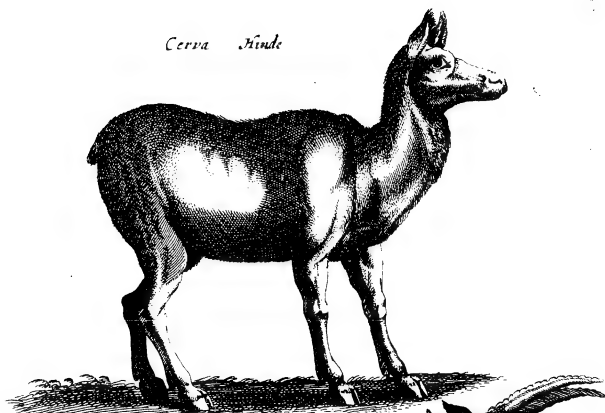
Caprea Rehe-Kalb



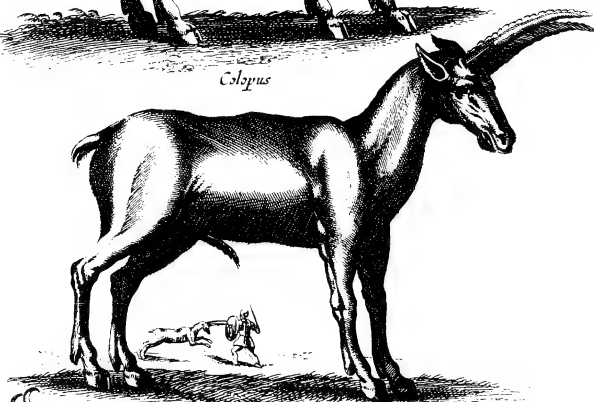
Alce Mas



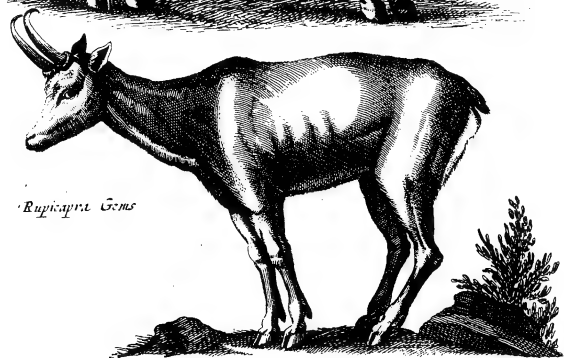
Cervus Hindu



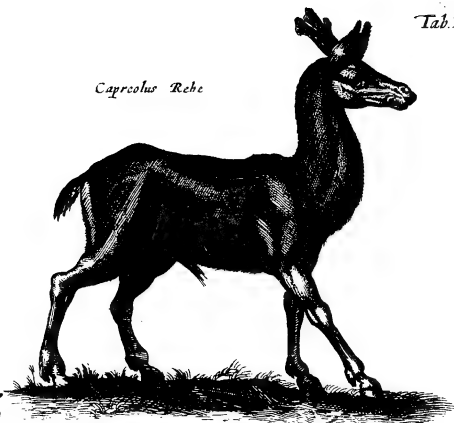
Colopus



Rupicapra Gans



Capreolus Rehe



Capreolus Marinus

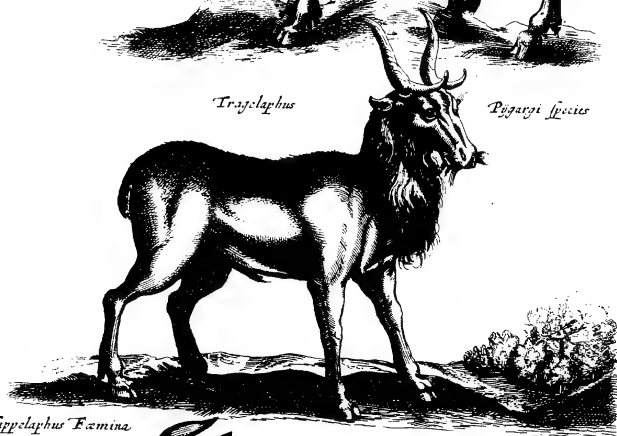


Capra



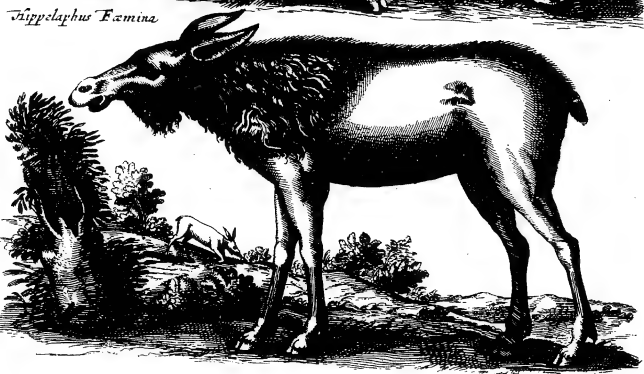


Pygargus
Wild Zars

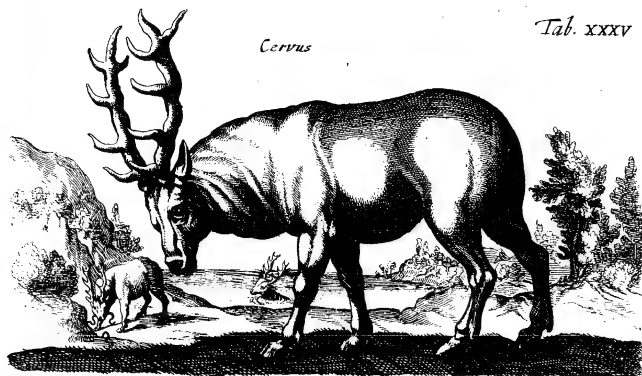


Tappclaphus

Pygargi species



Tappclaphus Femina



Cervus



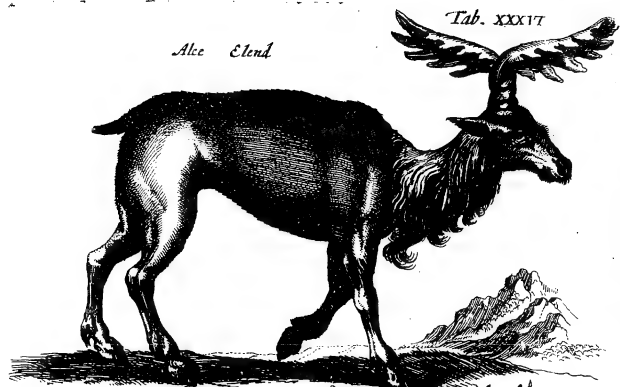
Tappclaphus mas

Roß Hirsch



Cervus
Burgundicus

Alce Eland



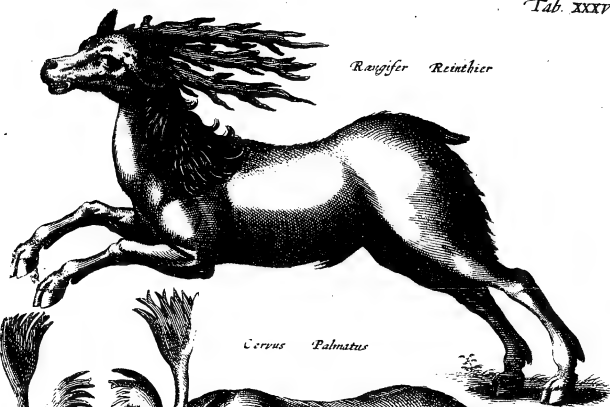
*Cervus
Mirabilis*



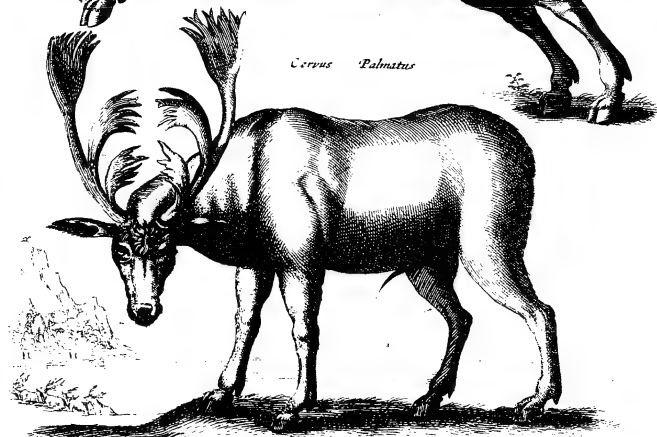
*Oryx Cervi
Species alys Alce*



Ravififer Reithier

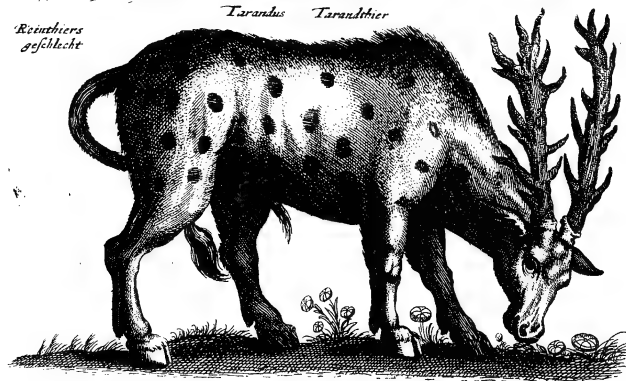


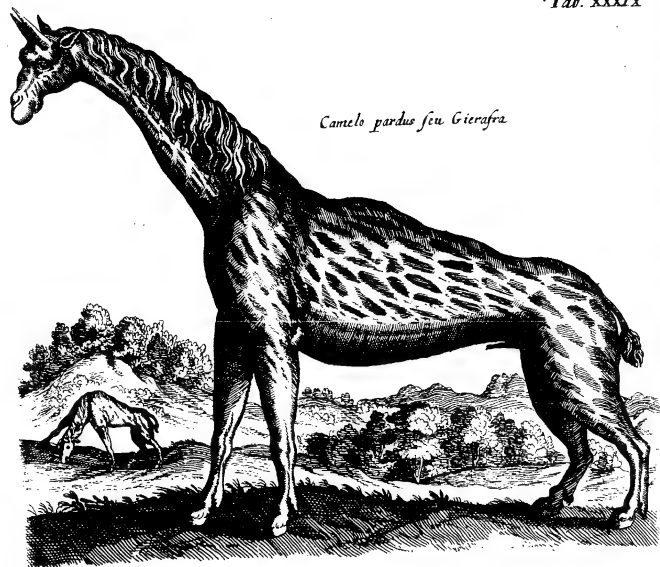
Cervus Palmatus



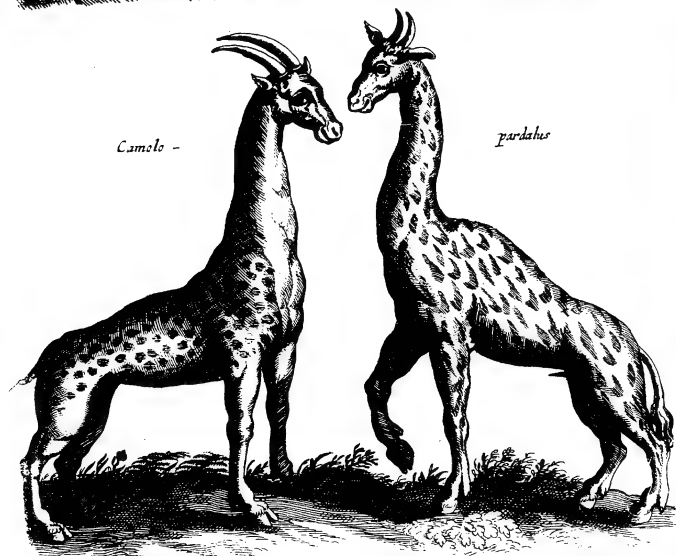
Tarandus Tarandhier

*Reithiers
gefchlecht*



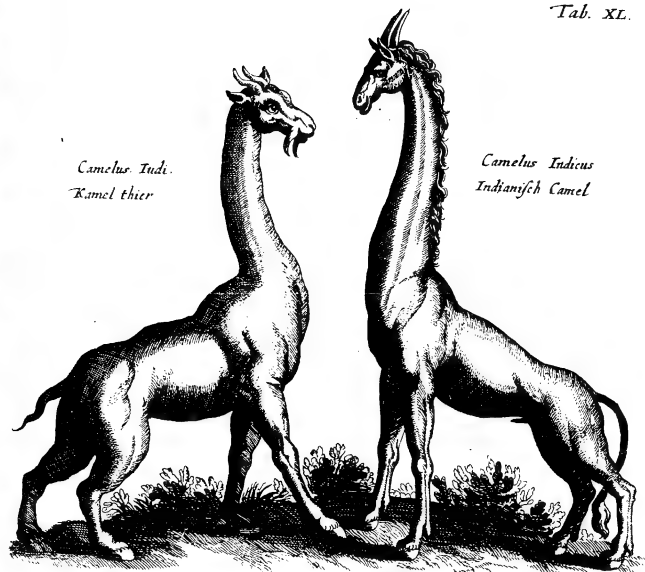


Camelo pardus seu Gierafra



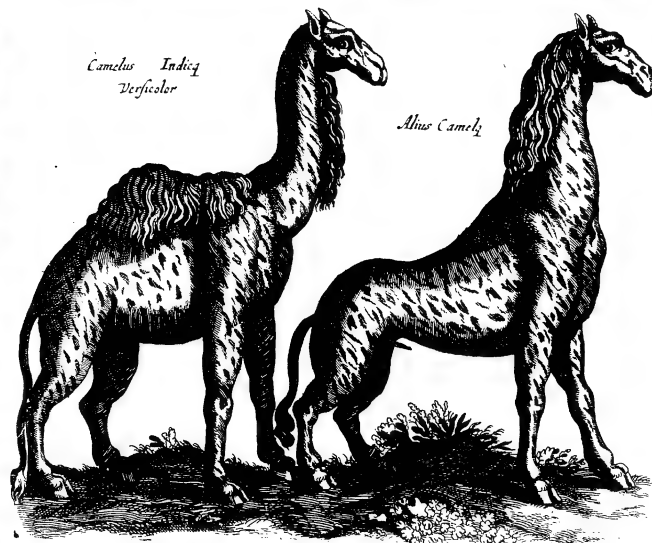
Camelo -

pardalus



*Camelus Indi.
Kamel thier*

*Camelus Indicus
Indianisch Camel*

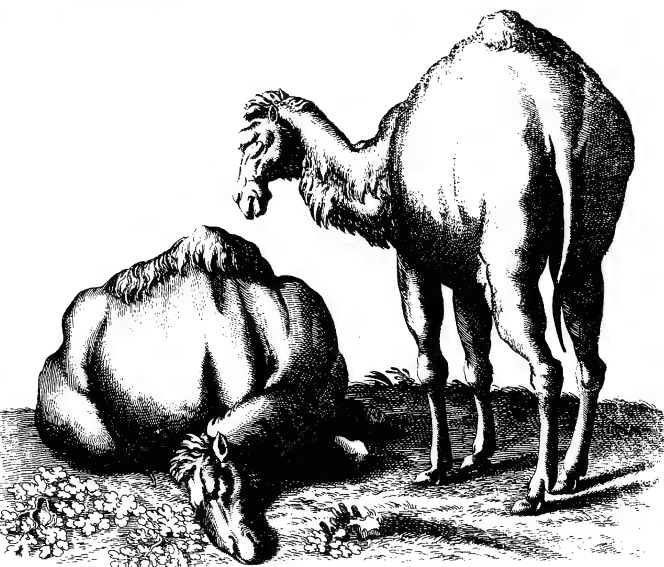
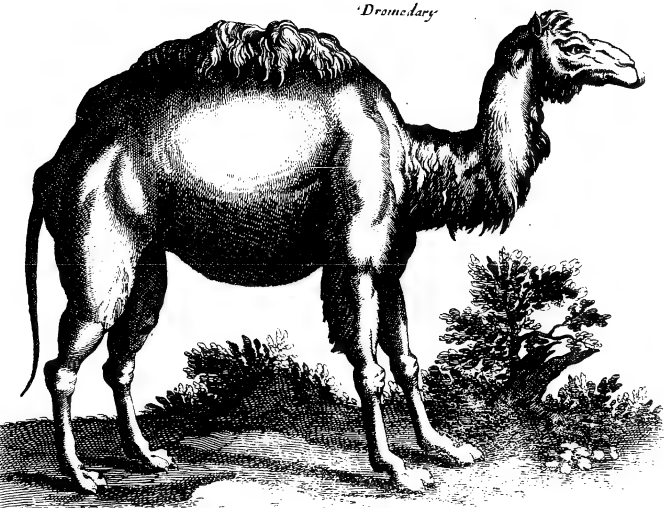


*Camelus Indicus
Versicolor*

Alnus Camelus

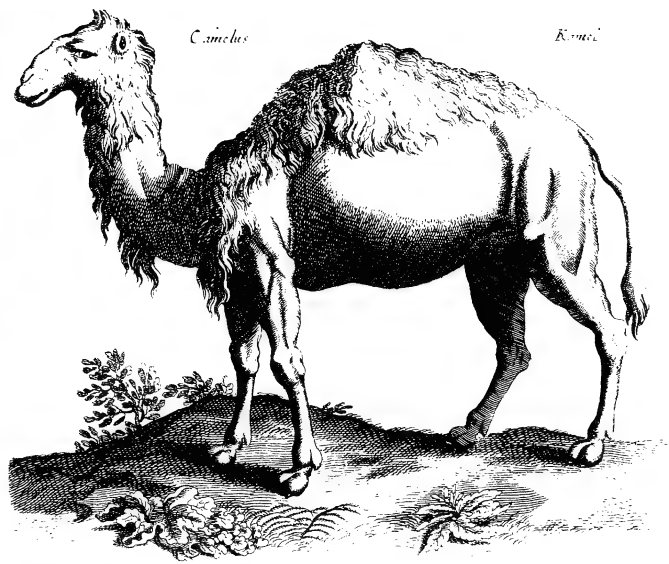
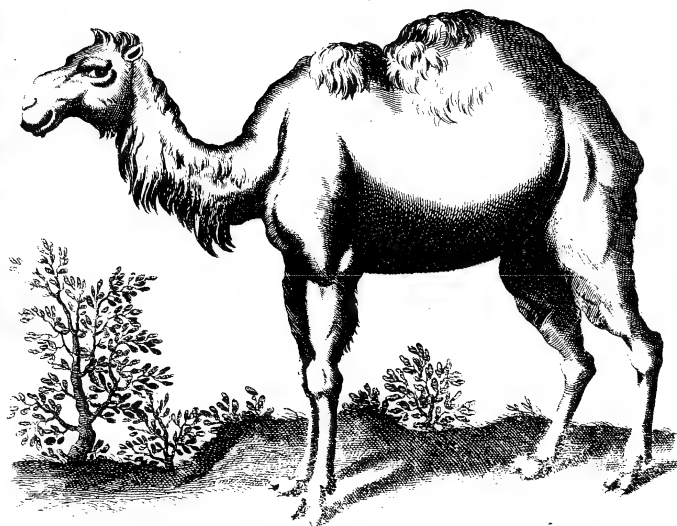
Tab. XLI

Dromedary



Tab. XLII

Dromedary

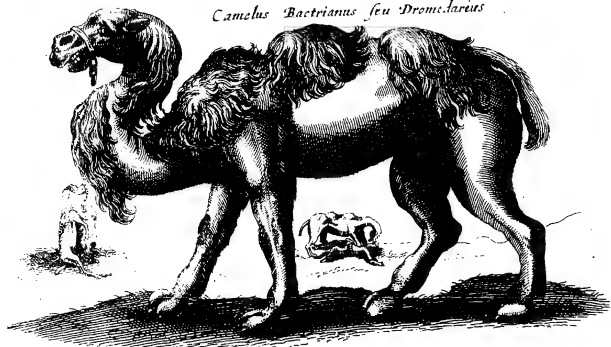


Camelus

Romei

Tab. XLIII.

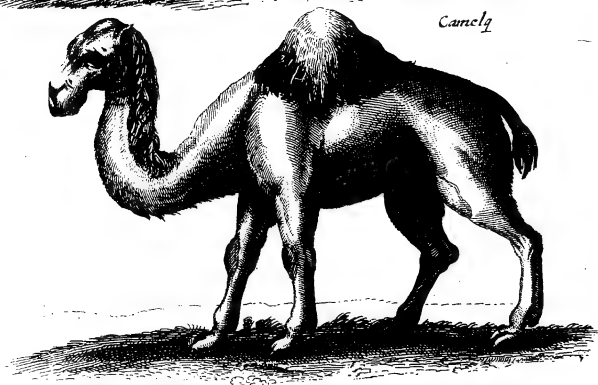
Camelus Bactrianus seu Dromedarius



Camelus

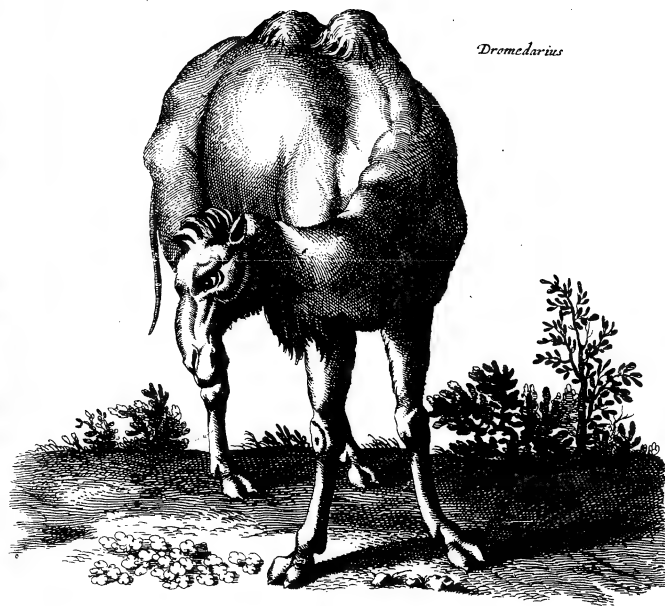


Camelq



Tab. XLIV

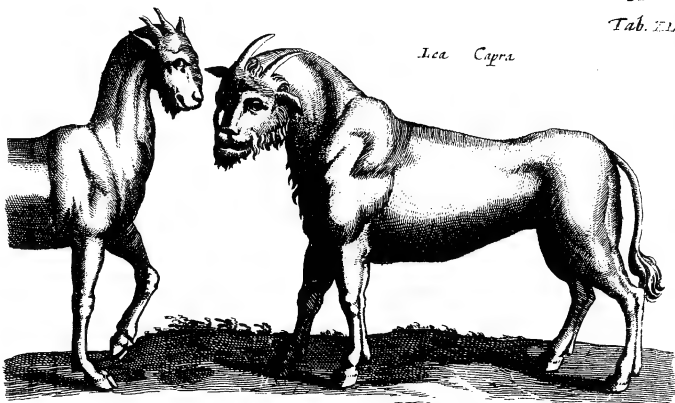
Dromedarius



Camelus



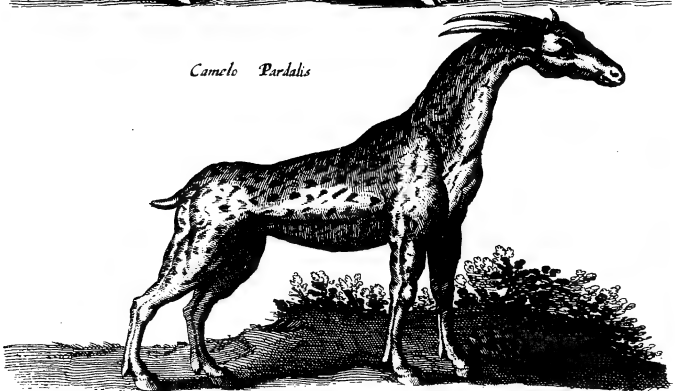
Ica Capra



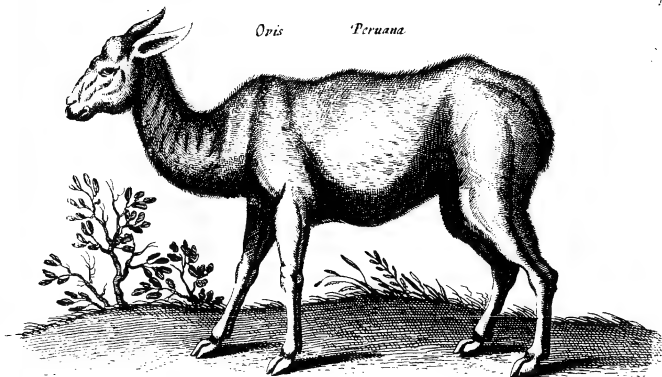
Ovis Cretensis



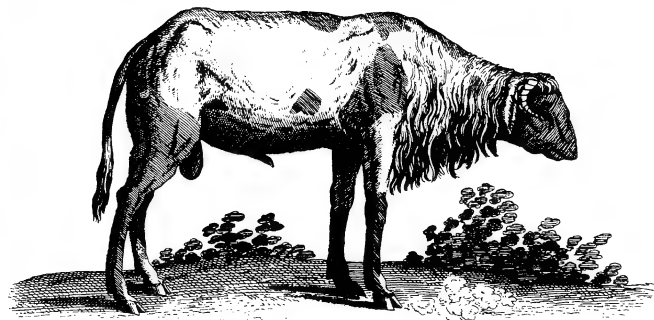
Camelo Pardalis



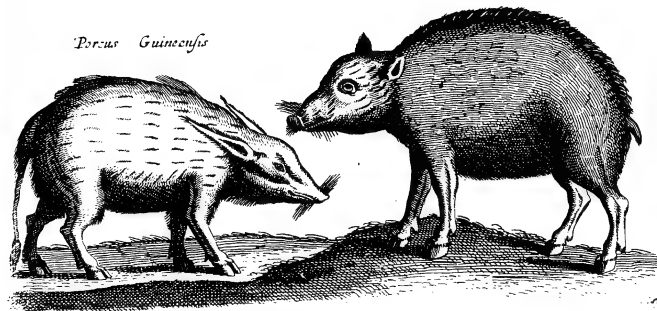
Ovis Peruana



Aries Guineensis



Zainq s. Tjiaen Porcus sulcirostris

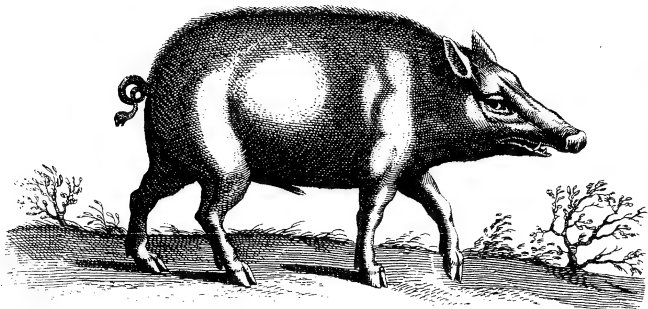


Porcus Guineensis

Vernis

Eber

Tab. XLVII



Aper

Wild Schwein



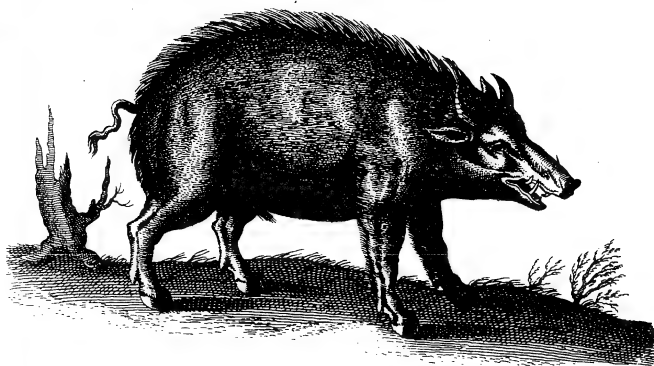
Serpa

Mock

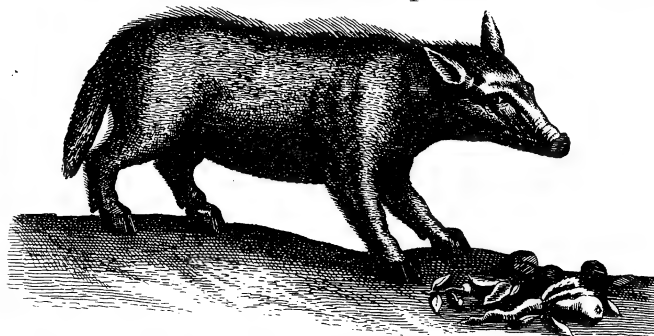


Sus Cornut

Tab. XLVIII



Porcus pumil: Lixus porcing

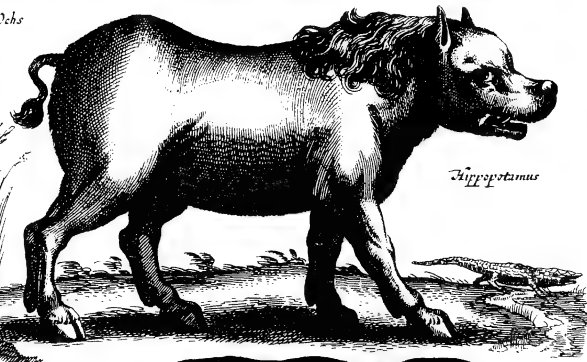


Aper Wild Schwein





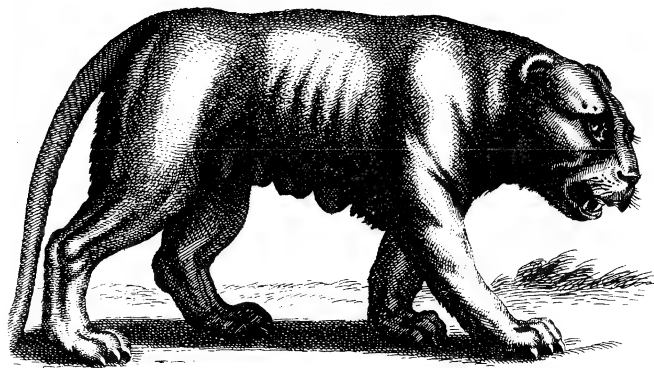
Waffel Och



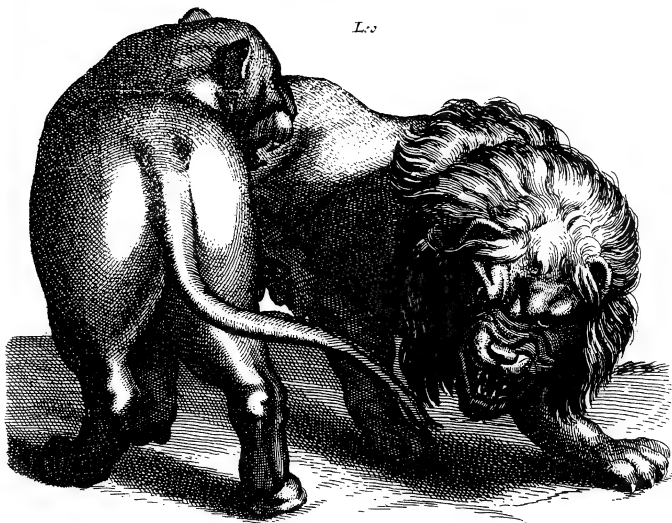
Hippopotamus

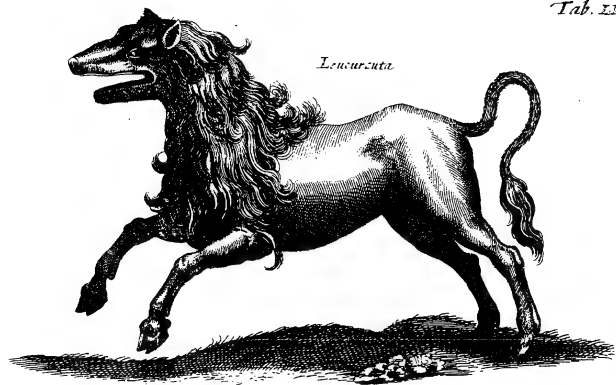


Leona



Leo





Leucurcuta



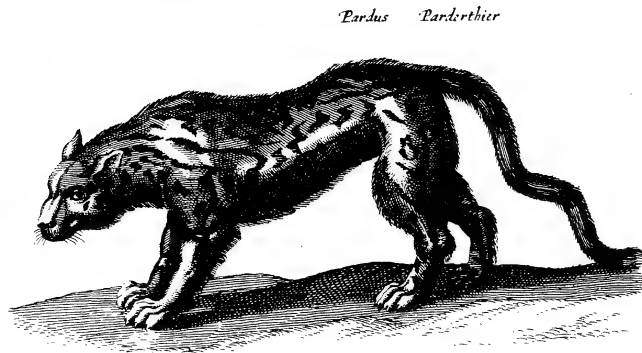
Leo Minor



Martigora



Pardus Leopardus
Pardotherius Leopard

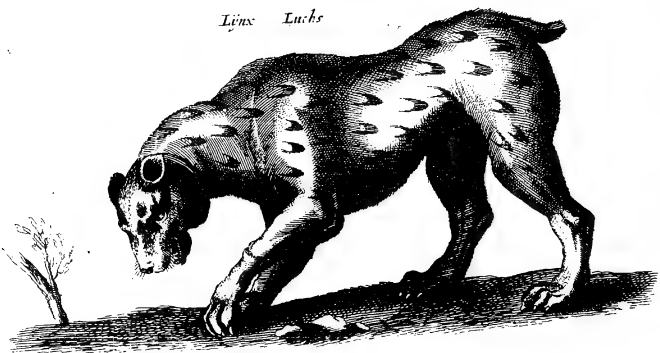


Pardus *Pardotherius*

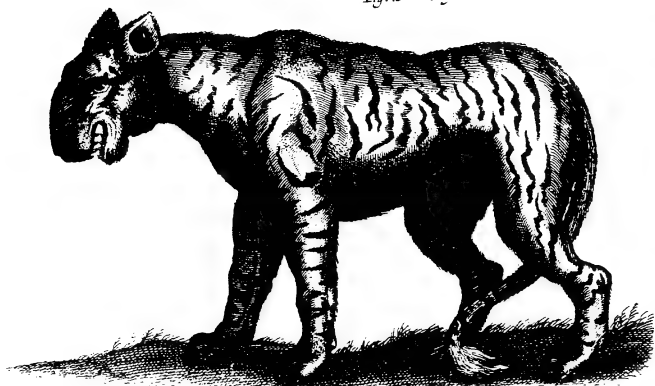


Tigris *Tigrotherius*

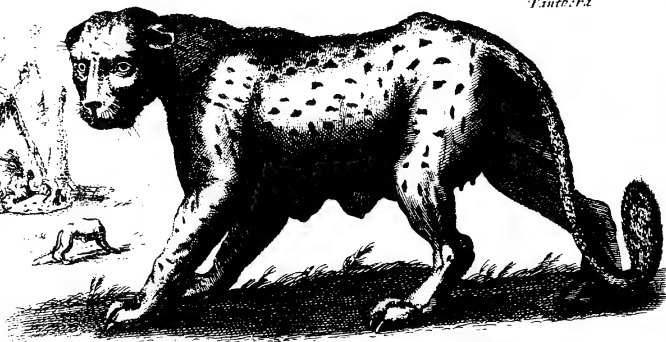
Lynx Luchs



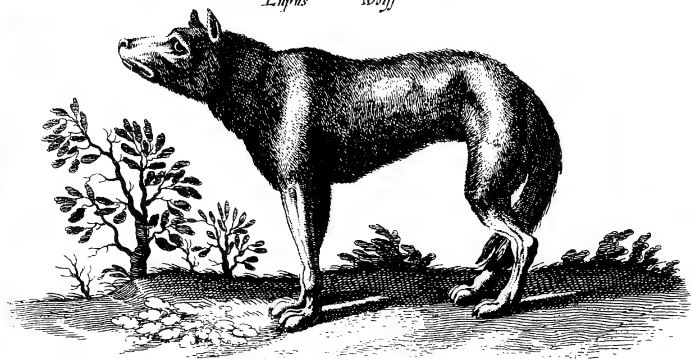
Tigris Ggneri



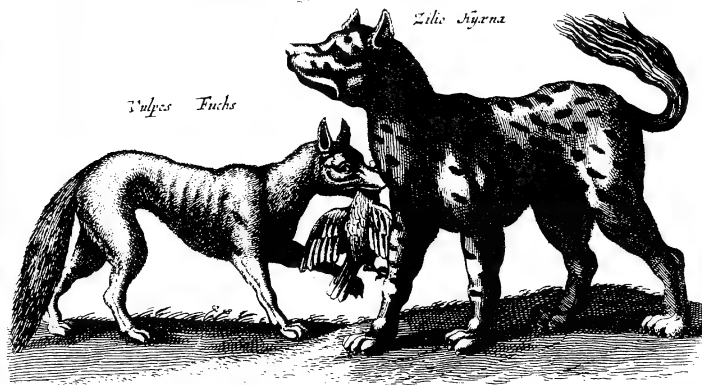
Panthera



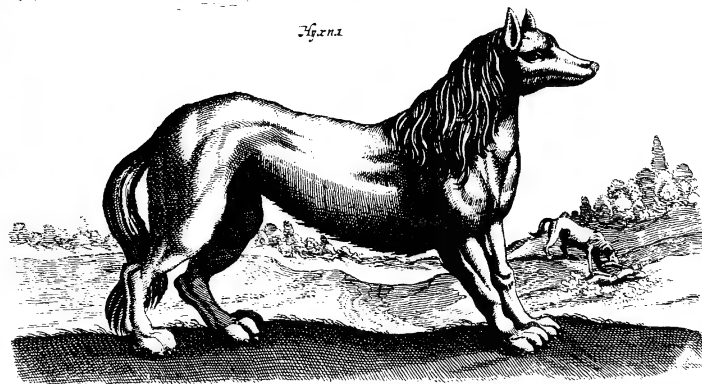
Lupus Wolff



Lilio Syena

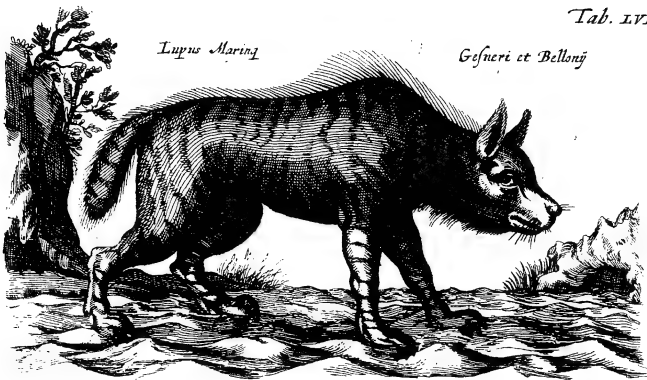


Syena



Lupus Maring

Gesneri et Bellonij



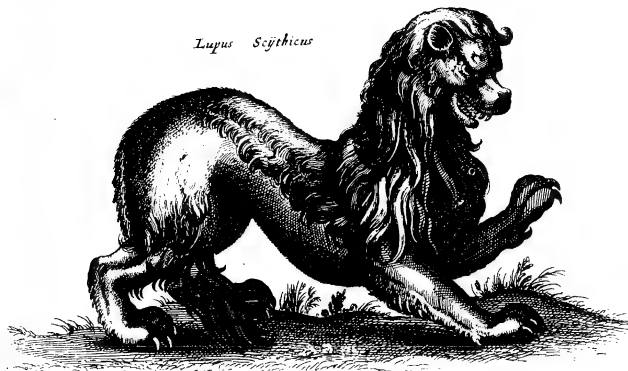
Lupus



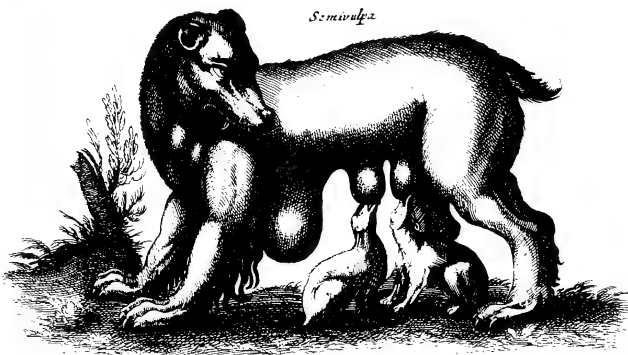
Gale Vultur



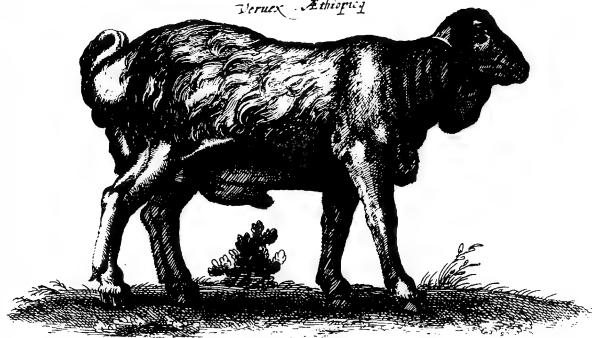
Lupus Scythicus



S. m. vulp.



Veruex Aethiopij



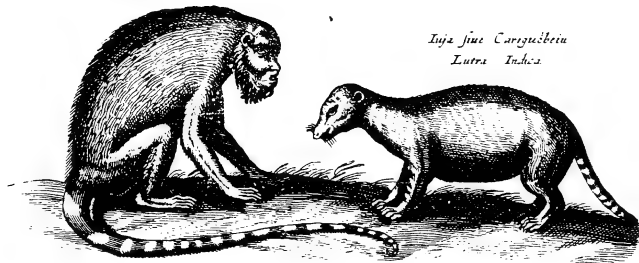
Capitana

Cagui Brasil



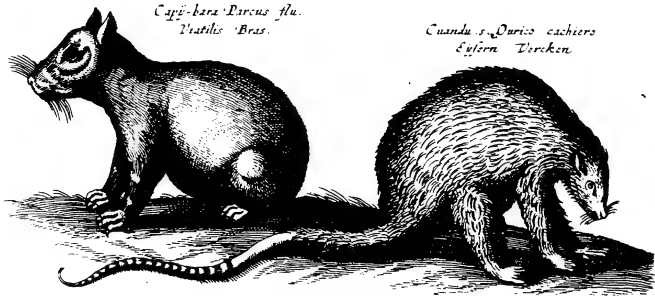
Cercopithecus barbatus Guin.

*Iuya sine Caraguabeta
Lutra Indica*



*Capitana Parvus flu.
Vatilis Bras.*

*Quando s. Parvo cashiero
Eysen Doreken*



Tamandua 1

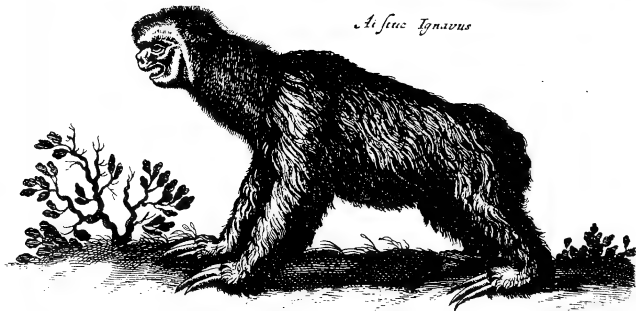
Tab. LXII



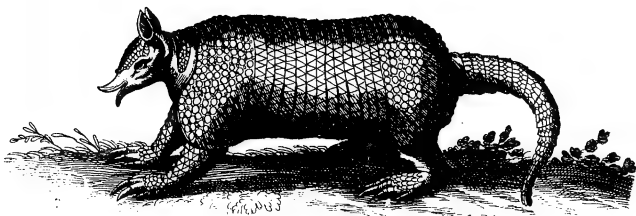
Tamandua guacu 2



At sine Ignavis

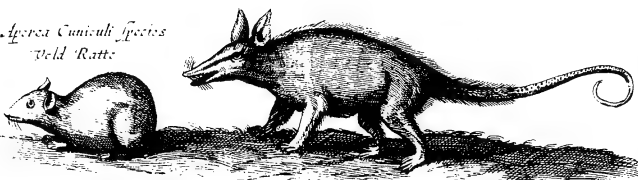


Tatu seu Armadillo



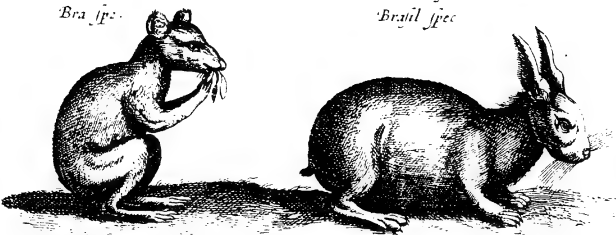
Caracaya

Aperca Cuniculi species
Veld Ratte



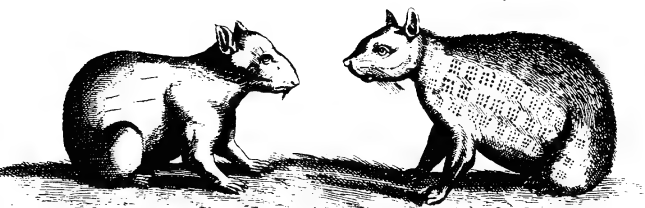
Ante vel Acute Cunic
Bra spe.

Caria Cobaya Cunic.
Brazil spec



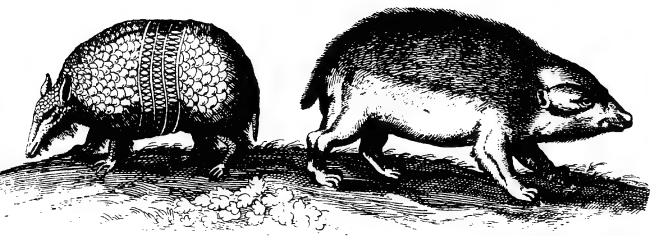
Cunizuli Indij Gefueri.

Paca Cunic Bras spe



Tatu Ayara

Dachs



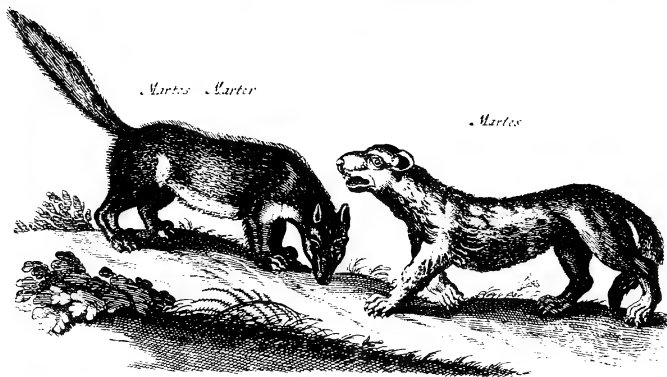
Mustela Mustel

Putorius Iltis



Martes Marter

Martes



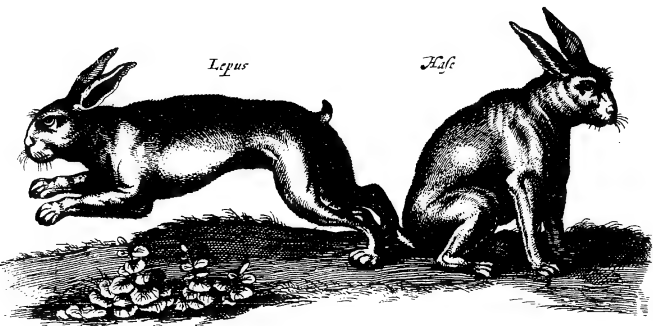
Procellus Indicus
Iltis

Taxus fullz



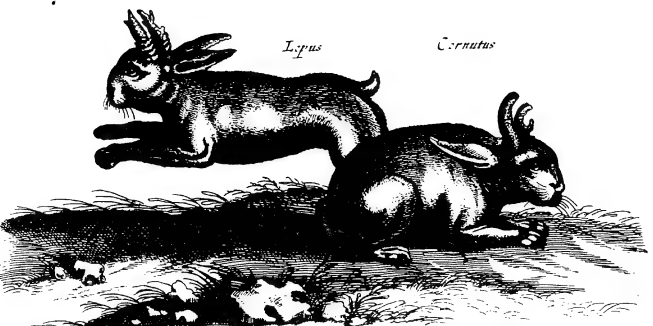
Lepus

Hase



Lepus

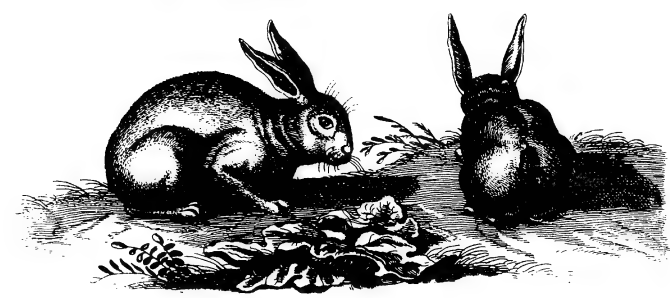
Capreolus



Cuniculus porcellus Indica

Kaninich

Konigskanin



Glirres Ratten

*Mures
Musje*



*Mus avellanarius
Zieselmaus*

*Sciurus
Eichborn*



Nilmaus

*Mus araneus
Spitzmaus*

Talpa Molckworf



*M. Noricus
Grosse Zieselmaus Zieselmaus*

Sciurus Geculus



Mus alpinus Marmota
Murmeltier

Glis Alpe.



Mus Indic.



Ichneumon s. lutra
Egypti



Mus Muscataly

Lutra Otter



Vitalus Marinus
See Kalb



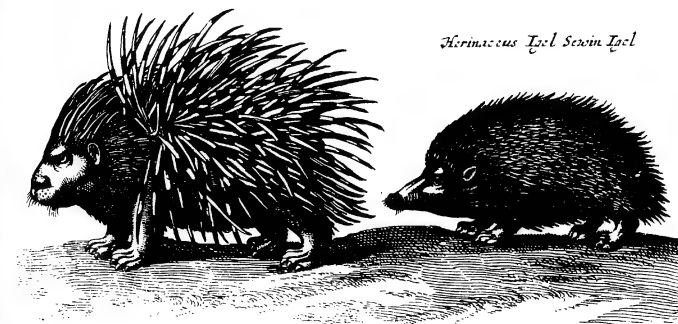
Cyler Fiber
Biber



Lonx Lonza



Hylrix Dorn schwein Stachel schwein



Hirinaeus Igel Schwein Igel

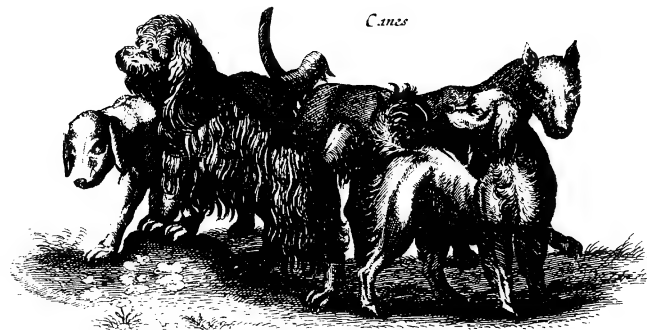


Tab. LXIX

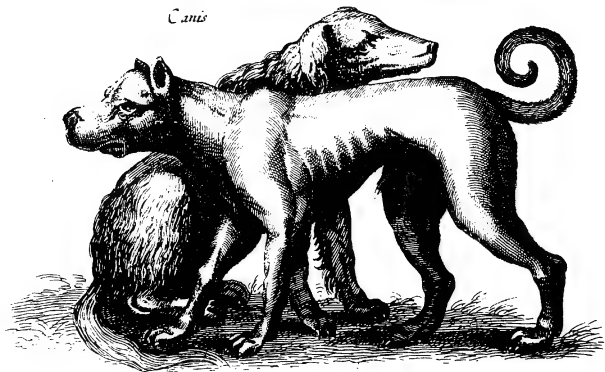
Canis Leporarius



Canis



Canis



Tab. LXX

Canis *Arunde*



Felis Domestica
Zahme Katz

Felis sylvestris
Wilde Katz



Felis Libetii

Libet Katz

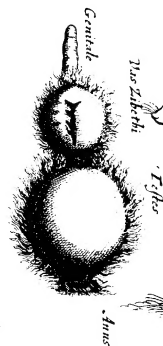
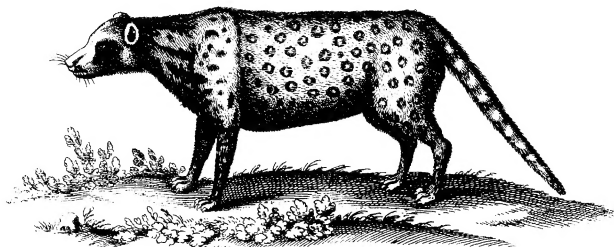


Genetta
Geneth Katz

Aeles vel Taxus Canin,
Dachs



Hyena Clorata Africana



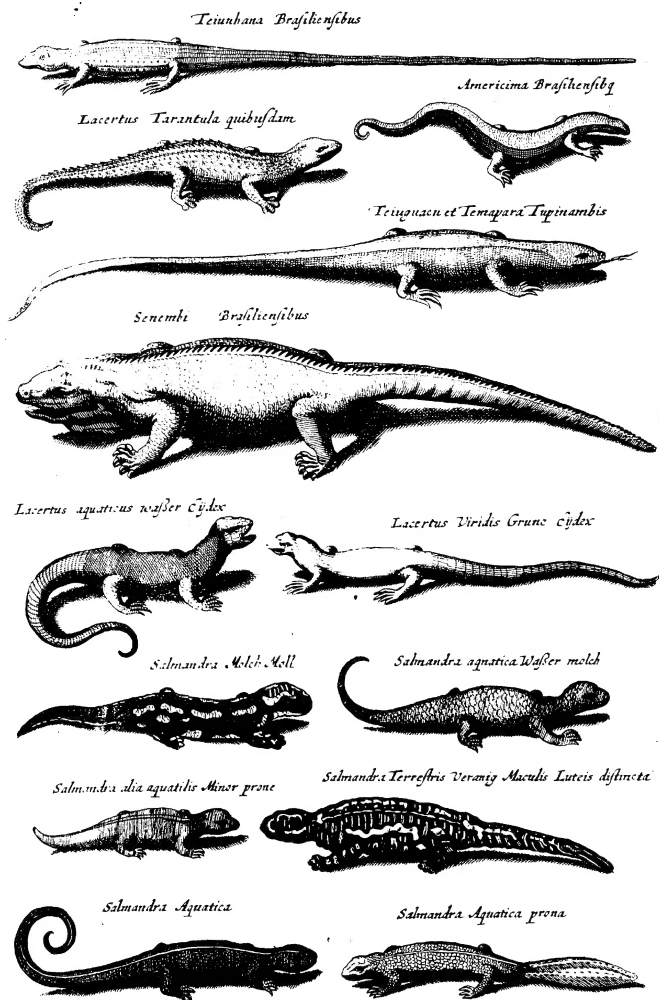
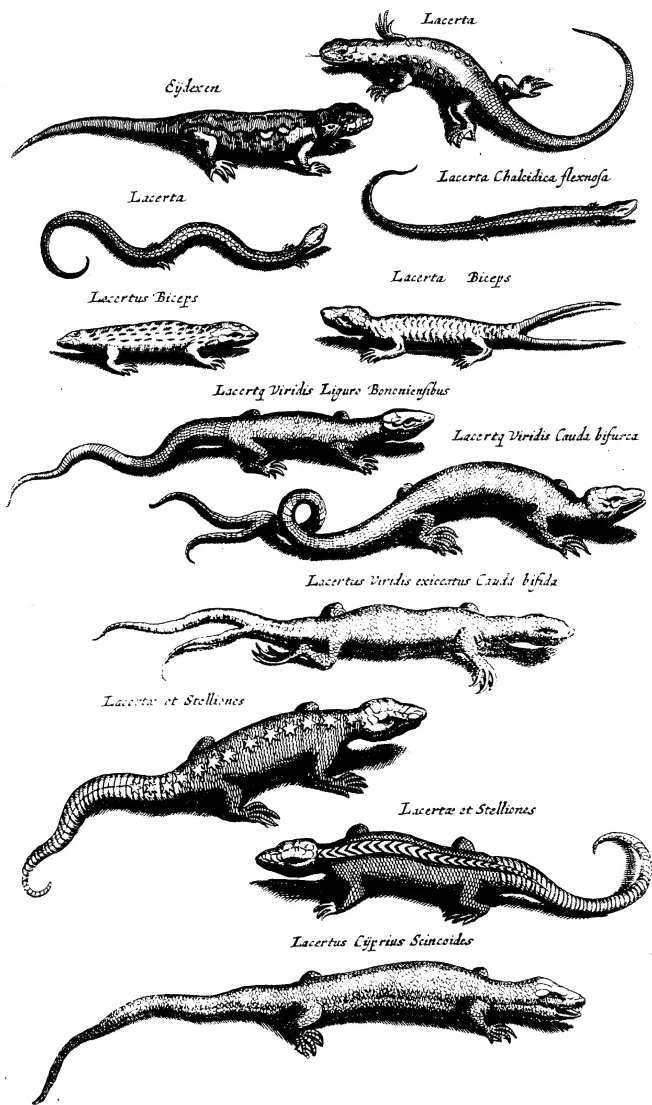
Catus Libethicus Americauy



Thaputzin

Mus Aquaticus





Tab. LXXVIII

Stelliones ex Matthiolo

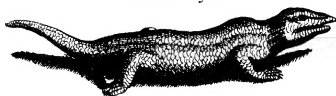


Stern Eydex

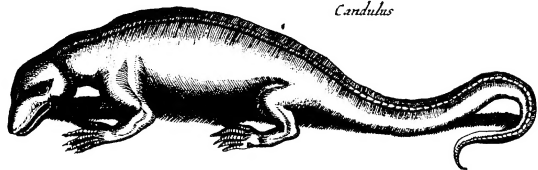


Frembd Eydex

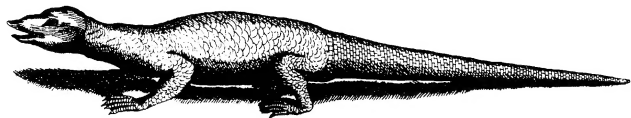
Scincus



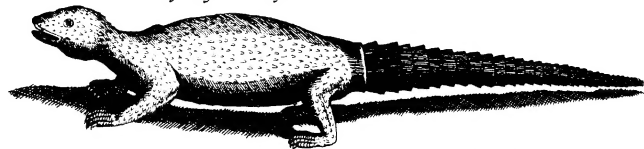
Candulus



Lacertus Indicus Cordylo Similis

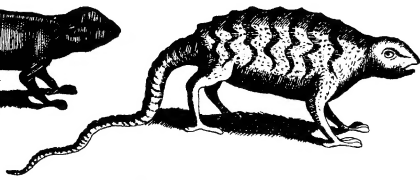
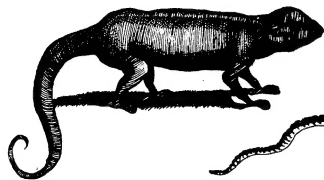


Cordylus sine Promastice



Chamoleon niger

Chamelon Varius

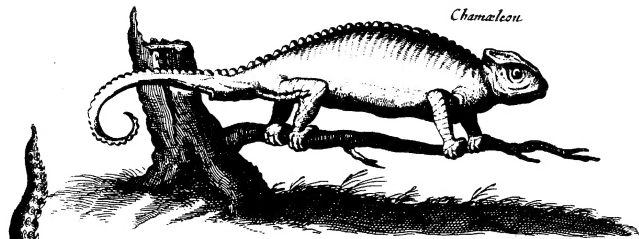


Tab. LXXIX

Chamoleon Cinerens Verus

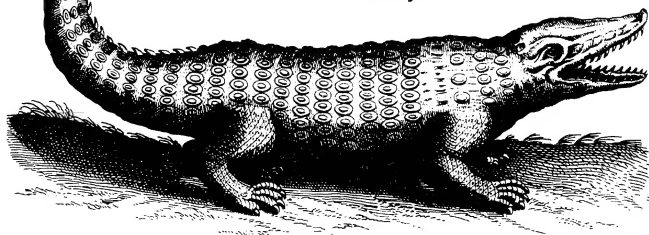


Chamaleon



Crocodylus

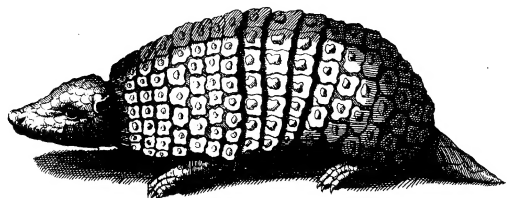
Crocodyll



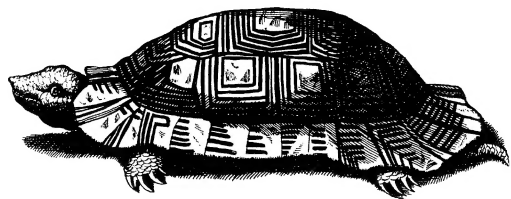
Lauduerb



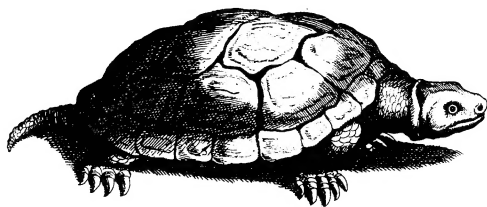
Tatus



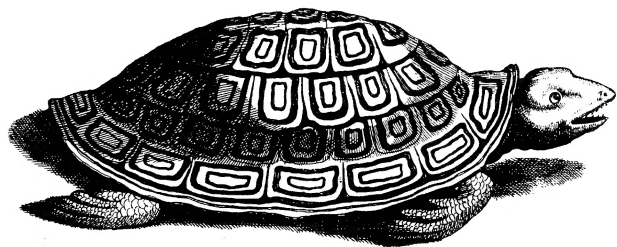
Testudo Schilde Kröte



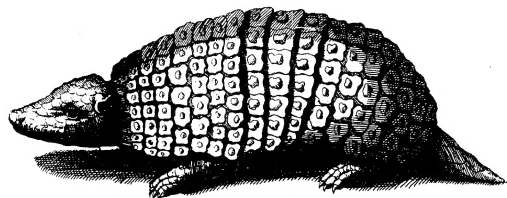
Testudo Aquatica



Testudo Marina



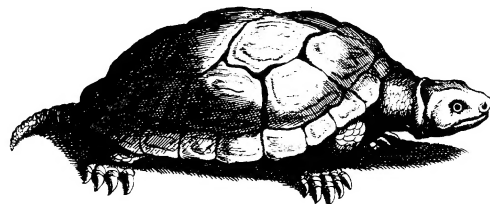
Tatus



Testudo Schilde Kröte



Testudo Aquatica



Testudo Marina

